

Bargaining with Non-Monolithic Players

Alejandro Caparrós, Jean-Christophe Pereau and Tarik Tazdaït

NOTA DI LAVORO 95.2005

JULY 2005

CTN – Coalition Theory Network

Alejandro Caparrós, Spanish Council for Scientific Research (CSIC), Department of Economics, Institute of Economics and Geography (IEG), Madrid Jean-Christophe Pereau, University of Marne-la-Vallée - O.E.P Tarik Tazdaït, C.N.R.S - E.H.E.S.S - CIRED

This paper can be downloaded without charge at:

The Fondazione Eni Enrico Mattei Note di Lavoro Series Index: http://www.feem.it/Feem/Pub/Publications/WPapers/default.htm

Social Science Research Network Electronic Paper Collection: http://ssrn.com/abstract=771264

The opinions expressed in this paper do not necessarily reflect the position of Fondazione Eni Enrico Mattei Corso Magenta, 63, 20123 Milano (I), web site: www.feem.it, e-mail: working.papers@feem.it

Bargaining with Non-Monolithic Players

Summary

This paper analyses strategic bargaining in negotiations between non-monolithic players, i.e. agents starting negotiations can split up in smaller entities during the bargaining process. We show that the possibility of scission in the informed coalition implies that it loses its information advantages. We also show that when the possibility of a scission exists the uninformed player does not focus on his or her beliefs about the strength of the informed coalition but on the proportion of weak/strong players within this coalition. Finally, our results show that the possibility of a scission reduces the incentives for the leader to propose a high offer to ensure a global agreement. We apply this framework to international negotiations on global public goods and to wage negotiations.

Keywords: Strategic bargaining, Non-monolithic players, Scission, Noncooperative game-theory

JEL Classification: C72, D74, Q28

We wish to thank comments and suggestions by the participants at the Public Choice 2005 conference in New Orleans (United States) and the Public Economic Theory 2005 conference (Coalition Theory Network sessions) in Marseille (France).

Address for correspondence:

Jean Christophe Pereau Université de Marne-la-Vallée UFR de Sciences Economiques Cité Descartes, 5 bd Descartes Champs sur Marne 77454 Marne-la-Vallée Cedex 2 France Phone: 0160957150 Fax: 0160957060 E-mail: Jean-Christophe.Pereau@univ-mlv.fr

1. Introduction

We are interested in the impact on negotiations of the fact that one of the players is not monolithic. Using Lax and Sebenius's (1992) terminology, we are interested in multiparty or multilateral bargaining and more precisely in what they call party arithmetic (adding or subtracting parties). As Lax and Sebenius pointed out over a decade ago, most of the work on bargaining within the strategic framework started by Rubinstein's (1982) seminal paper has been done assuming bilateral bargaining between two monolithic players. Nevertheless, there are a number of relevant bargaining situations where this assumption is not pertinent.

International negotiations on trade tariffs, on agricultural subsidies in the Northern countries, or on climate change mitigation generally take place between coalitions of countries. Standard coalitions in these negotiations are the countries of the European Union, which have, however, kept their autonomy at the international arena, or the G77 and China, a highly heterogeneous coalition regrouping large developing countries (China, India or Brazil), rich oil producers (Saudi Arabia) and extremely poor countries (the Least Developed Countries). In recent negotiations between the United States and its allies (mainly the European Union) on the terms and conditions of a military intervention in Iraq, the weakness of the coalition formed by the European Union has been evident once more. Negotiations started between the United States and the European Union, but once the possibility to split up the coalition was clear, the United States did not any more focus on the demands of the coalition as a whole, but on the demands of a particular sub-coalition, the one formed by the countries meeting at the Azores (United Kingdom, Spain, Portugal and Poland). However, not always apparently weak coalitions split-up. In the long negotiations on climate change, G77 and China have essentially managed to talk with a single voice during all the negotiation process², and this in spite of the very different impacts that climate change, or an agreement to fight climate change, could have on their economies. As stated above, G77 and China regroups oil producers which would be harmed by any climate agreement (Saudi Arabia), large developing countries whose main interest is not to be constraint in their urgently needed development (China and India), but also small islands (AOSIS) or extremely poor countries (The Least Developed Countries) which are the most vulnerable to climate change (Caparrós et al., 2004).

The importance of not negotiating between monolithic parties is also obvious in negotiations between an entrepreneur and the trade union representing his or her employees.

² With some exceptions, as in the first meeting in Argentina.

Lax and Sebenius (1992) illustrate their point by recalling negotiations between the National Football League (NFL) and its Player's Association (the NFLPA) over a contract in 1981. The NFLA was a coalition made up of a few "stars" and numerous "journeymen". Although all players benefited, to some extend, by a union that could create a unified front with respect to the league, different contracts could confer relative advantage to stars or to journeymen. When the NFL's original proposal failed and a strike began, it floated an offer for limited free agency that suited the stars. When some of the stars began crossing the picket line, the union's resolve appeared to weaken. As Lax and Sebenius pointed out, "analyzing this situation as if it were two monolithic parties would overlook crucial coalitional dynamics".

During the nineties multilateral coalitional bargaining, within the strategic framework, has been an important research issue. However, the models developed focus mainly on coalition formation, without externalities (Chaterjee et al., 1993; Perry and Reny, 1994) and with externalities (Bloch, 1996; Ray and Vohra, 1999). The issue typically modeled is the formation of a coalition where one party proposes a coalition structure and other parties accept it or propose an alternative coalitional structure. Nevertheless, these models do not explicitly address the particularities of a negotiation between two (or more) nonmonolithically parties over a particular issue: a money transfer from the North to the South as development aid, a technology transfer to fight climate change, the conditions of a military intervention in Iraq or simply a salary to be paid by the entrepreneur to his workers. In addition, the models quoted above assume that the coalitions are formed having in mind the problem under consideration. However, in many real life situations the coalitions that start negotiating are formed in a pre-game phase, so that the question is if they will negotiate as a monolithic coalition or if they will split up. Using the examples above, the European Union was not formed having in mind the military intervention in Iraq, the G77 and China was not created to deal with climate change and the NFLPA was also not created to negotiate the 1981 contract.

Manzini and Mariotti (2005) analyze, as we do, negotiations that do not occur between individuals but among groups (they use companies, trade unions or political parties as examples). However, they analyze the impact on the negotiations outcome of different voting rules (unanimity or majority) and do not explicitly analyze the impact of a potential scission. Although Manzini and Mariotti refer to alliances, their paper assumes, as ours, a bargaining framework à la Rubinstein and differs therefore from standard literature on alliances (see Sandler and Hartley (2001) for a survey of the economics of alliances and Garfinkel (2004) for a recent development that does not assume that "peace" prevails within the alliance).

To analyze this kind of negotiation we develop a simple dynamic bargaining model where one monolithic party negotiates with a non-monolithic party that has private information. We assume that the uninformed party has a leader role in the negotiations. Thus, he, she or it (he from now on) moves first and proposes an offer which is accepted or not, and in case of refusal, proposes a new offer. This model is well suited to analyze negotiations between the United Stated and the European Union described above (where the United States play a leader role but do not know exactly the minimum demands of the European Union) and also to model negotiations between an entrepreneur and his workers (the NFL has an obvious leader role but it does not know the minimum requirements of its players). Finally, it can also shed some light on the issue of negotiations between the industrialized countries and G77 and China, as long as we assume that the industrialized countries are a monolithic party³.

Our results show that the possibility of a scission⁴ increase the chances to obtain an agreement while it reduces the chances to obtain an agreement based on a significant amount of transfers from the leader to the informed party. We also show that the possibility of scission implicitly implies that the informed party looses the advantages that it had from its private information. Thus, the informed party may benefit if it can commit before the game starts to preclude any kind of scission, since banning the possibility of a scission leads to 'more aggressive' negotiation tactics. This result is, to some extent, similar to the result obtained in Manzini and Mariotti (2005) that the unanimity rule favors more aggressive negotiation tactics.

Finally, we show that while in a static game the leader still "sees" the original coalition, in the dynamic game his beliefs about the original coalition disappear completely from the expression that shapes his offers. That is, in a static game, even with the possibility of a scission, the leader offers an amount or another taking into account his beliefs about the strength or the weakness of the non-monolithic coalition that he is facing. However, in a dynamic context, his offers are by no means shaped by his beliefs upon the original coalition, but only on his beliefs about the *proportion* of weak or strong members of this coalition.

That is, when the United State negotiate with the European Union about an issue (the military intervention in Iraq or agricultural subsidies) they take into account its beliefs about the strength or the weakness of the EU demands only if they are convinced that a scission

 $^{^{3}}$ In the case of climate change negotiations, the United State actually rejected the common position of the industrialized countries of ratifying Kyoto. However, the model proposed in this paper could eventually be applied to future negotiations between Annex I countries that have ratified Kyoto and the G77 and China.

⁴ We use the term "scission" to distinguish it from the closely related term of "deviation" used in cooperative game theory and from the conceptually totally different term "player splitting" (Perea y Monsuwe *et al.*, 2000).

among the European Union cannot happen. On the contrary, if they think that a scission may in fact occur, and the negotiations take longer than a single period (as they usually do) the United States do not take into account the demands of the European Union as a whole while shaping its offers, but just the proportion inside the European Union of strong or weak parties. Of course, turning the argument up-side-down provides a strong incentive for potentially unstable coalitions (the EU or G77 and China) to preclude any scission. In fact, this is the behavior that G77 and China has tried to keep during the climate change negotiations, where they have managed to precluded any scission in despite of their internal diversity. The stability of that coalition could be seen as a consequence of the presence of asymmetric information.

We will also show, however, that the straightforward strategy of assuming directly that a given non-monolithic coalition does in fact not exist (focusing on the smallest units) is not pertinent either, since under a given set of circumstances the perfect Bayesian equilibrium will in fact imply that the coalition acts as a single coalition during the whole game.

The rest of the article is organized as follows. Section 2 presents the basic model and solves it assuming that both parties are monolithic. Section 3 relaxes the assumption that parties are monolithic and puts forward the link between the possibility of scission and the shape of the agreement. Section 4 concludes.

2. The model without scission

The basic model that we are going to use is inspired by Fudenberg and Tirole (1983). Let $N=\{1,2\}$ be two players negotiating over the transfer that player 1 will grant player 2 to obtain a product or service that benefits both to some given extend. The good under consideration can be the provision of a public good (e.g. fight against international terrorism or climate change mitigation) or the provision of a good to be sold in the market (cars, or football matches as in the example above). Player 1 is a monolithic party, a single country as the United States, an entrepreneur or any coalition which is assumed to be stable over the complete game. This monolithic party has a leader role in the game, because he is the owner of the company, because the country suffered a large terrorist attack and internal pressure forces it to act, or because it regroups a group of countries responsible for the degradation of a common good such as climate (see footnote 2). We will call this party the "leader" of the negotiations. Player 2 is a coalition of agents (the countries forming the European Union or the football players), which we will assume, for the time being, to be a monolithic coalition.

We will call this group of agents the original coalition, or just the coalition. We note e_i the level of effort and π_i the welfare function of player i, $i \in N$. Welfare functions are supposed to be continuous and concave:

$$\boldsymbol{p}_{1}(e_{1} + e_{2}, t_{1}) = B_{1}(e_{1} + e_{2}) - C_{1}(e_{1}, t_{1})$$
(1)

$$\boldsymbol{p}_{2}(e_{1}+e_{2},t_{1})=B_{2}(e_{1}+e_{2},t_{1})-C_{2}(e_{2}), \qquad (2)$$

where B_i is the benefit obtained by player *i* from the efforts undertaken by both players and C_i are the costs of the efforts for player *i*. t_1 refers to the transfers (money, technology transfers, concessions in other subjects) received by the coalition from the leader to incentive its efforts to provide the (public) good. This transfer is proposed by the leader and satisfies the following assumptions:

$$\frac{\partial C_1}{\partial t_1} > 0$$
 and $\frac{\partial B_2}{\partial t_1} > 0$. (3)

Thus, the transfer is a 'loss' for the leader and a 'gain' for the coalition. That is, both players perform an effort to provide the good (the United States and the European Union both fight terrorism, the industrialized countries and the G77 and China both fight climate change, the NFL and the NFLPA both provide and effort to perform football games), both benefit from the provision of the public good (this is probably more obvious in the case of public goods such as international terrorism or climate change than in the case of the football games, although fame could be an additional benefit for players beyond salary), and finally the leader is ready to transfer some benefit to the coalition (this may be political concessions in the case of the US-EU negotiations, technology or money transfers in the case of climate change negotiations and the salary in the case of the football League negotiations). This means that even if both players are concerned about the (public) good, their interests diverge.

Given the leadership role that we have assigned to player 1 (the leader), he plays first and proposes, at the same time, his level of effort (e_1) and the amount of transfer granted to the coalition to incentive its efforts. If the coalition accepts the offer, the agreement is struck and it provides the agreed efforts. If the coalition does not accept, negotiations go on with a new proposition from the leader, formed by a new program of efforts and a new amount of transfers. If this offer is accepted, an agreement is concluded; otherwise, no agreement is reached and both players act independently.

All features of the negotiation are known with certainty by both parties, except that the leader does not know the real capacities (demands) of the coalition. We assume that the total

level of effort that the leader needs to obtain, adding the effort performed by the coalition and the effort performed by himself, is given. We further assume that a strong coalition, in the sense that it is able to perform a high level of effort, will have high demands, while a weak one will have low demands. Using the example of the NFL: a coalition dominated by stars will only play with a high salary, while a coalition of journeymen will play for less money although unmotivated stars may perform poorly (therefore, the owner will need to perform an important additional effort if he wants to have spectators in the matches). In climate change negotiations (or in negotiations on efforts against international terrorism), if a coalition with high emission reduction capacities gets a high amount of transfers it will be able to perform a high level of abatement, while a coalition with low capacities will only be able to perform small emission reductions, whatever the level of transfers granted. However, the coalition with high capacities, knowing its key role, will have high demands as well. This was the case of Russia during the negotiations on the Kyoto Protocol, where it demanded, and obtained, a significant amount of concessions.

To simplify, we assume that the capacities (demands) of the coalition take one of the two following values: e_2^- and e_2^+ , where $e_2^- < e_1 < e_2^+$. Either the capacities of the coalition are low (a "weak" coalition), or they are high (a "strong" coalition). We can reduce the model from two decision variables to only one, the amount of transfers, by setting:

$$e_2^- = e_2^-(t_2^-), \quad e_2^+ = e_2^+(t_2^+)$$
 (4)

That is, we distinguish the type of coalition in function of the transfers granted (i.e. we have a t_2^+ and a t_2^- coalition, with $t_2^- < t_1 < t_2^+$). That is, we will note t_1^- the amount of transfer proposed by the player 1 (leader) and t_2^- the demands of player 2, the coalition, which actually defines the type of the coalition. Hence, a t_2^+ -coalition will only accept a certain level of effort in exchange of a significant transfer (t_2^+) . On the contrary, a t_2^- -coalition will provide the effort as soon as it gets a transfer equal to t_2^- . We assume further that the leader wishes to reach a global target \bar{e}^- which can be obtained by two ways: a low (respectively high) level of effort for the leader and a high (respectively low) effort for the coalition, such that $\bar{e}^- = e_1^- + e_2^+$ or $\bar{e} = e_1^+ + e_2^-$. In the first case, when the leader beliefs that he is faced with a coalition able to provide a high level of effort, the leader has to offer a high level of transfer t_2^+ to get a high effort. However, given the asymmetry of information, a high amount of transfer does not guarantee a high level of effort. That is, the outcome may be a lower level effort as initially expect by the leader, implying that the target is missed: $e_1^- + e_2^- < \bar{e}$.

The leader has an *a priori* distribution of probability on $[t_2^-, t_2^+]$:

$$p(t_2^+) = p_1^+, \qquad p(t_2^-) = p_1^- = 1 - p_1^+.$$
 (5)

This probability distribution implicitly refers to $[t_2^-, t_2^+]$, as the efforts provided are a function of the amount of transfer granted.

We set, without loss of generality:

$$\boldsymbol{p}_{1}(e_{1}^{+},t_{2}^{-})=0, \tag{6}$$

This means that the leader's welfare is normalized to zero when he offers a small amount of transfers ($t_1 = t_2^-$) to a t_2^+ -coalition. Since the demands of this coalition are high, it will refuse to cooperate.

A family of conditional probabilities for the leader is an application that associates for every history of transfer propositions and corresponding answers, a distribution of probabilities on $[t_2^-, t_2^+]$. Since the game has only two periods and finishes at the first period in case of agreement, only conditional probabilities on the type of the coalition in case of a refusal to the transfer t_1 proposed at the first period are relevant. We note $[p_{11}^-, p_{11}^+]$ the distribution of probabilities of the leader at the beginning of the second period when the amount t_1 proposed in the first period was refused:

$$p_{11}^- = p(t_2^- / \text{refusal } t_1)$$
 and $p_{11}^+ = p(t_2^+ / \text{refusal } t_1) = 1 - p_{11}^-$. (7)

A pure strategy for the leader is a pair $(t_1, t_{11}(.))$ where t_1 is the amount proposed at the first period and $t_{11}(.)$ a function that associates a transfer t_{11} in the second period to any transfer t_1 refused in the first period (i.e., we note t_{11} the transfer proposed by player 1, the leader, in the second period). A mixed strategy for the leader is formed by a distribution of probabilities on \Re^+ and an application that associates, for any transfer t_1 refused in the first period, a distribution of probabilities on \Re^+ (the set of possible transfers for the second period).

A pure strategy for the coalition is a pair of applications $(f_2(.), f_{22}(.))$. The first application associates to its private information $t_2 \in [t_2^-, t_2^+]$ and to any transfer t_1 , an element $f_2(t_2, t_1)$ of the set {a,r} of possible answers. The second application associates to the private information, to any transfer t_1 refused and to any transfer t_{11} , an element $f_2(t_2, t_1, t_{11})$ of {a,r}. A mixed strategy for the coalition is composed by (i) a family of distribution of probabilities on {a,r}, which are conditional to (t_2, t_1) and noted $\mathbf{m}_2(f_2/t_2, t_1)$, and (ii) a family of distribution on {a, r}, which are conditional to (t_2, t_1, t_{11}) and that we note $\mathbf{m}_2(f_{22}/t_2, t_1, t_{11})$.

The equilibrium concept used is the perfect Bayesian equilibrium. The strategies of both players in each period of the game, together with the associated beliefs, form a perfect Bayesian equilibrium if the constraints of sequential rationality and Bayesian coherence hold: (i) at every step of the game, the strategies are a Nash Bayesian equilibrium, given the beliefs; (ii) following the equilibrium path, beliefs are determined according to Bayes' rule.

We note d_1 and d_2 the discount factors of players 1 and 2 (with $0 < d_i < 1$, i=1,2). The highest transfer accepted at the first period by the t_2^- -coalition when it anticipates that the transfer proposed in the second period will be $t_{11} = t_2^+$ is noted \hat{t}_2 . Thus, \hat{t}_2 is defined by:

$$(1 - \boldsymbol{d}_2)C_2(\boldsymbol{e}_2^-) = B_2(\boldsymbol{e}_1^+ + \boldsymbol{e}_2^-, \hat{\boldsymbol{t}}_2) - \boldsymbol{d}_2 B_2(\boldsymbol{e}_1^- + \boldsymbol{e}_2^-, \boldsymbol{t}_2^+).$$
(8)

We only consider variations of the game corresponding to pure strategies of the leader (i.e. we exclude the possibility that the leader proposes a lottery, since this is not pertinent in the kind of situations that we are modeling).

Definition

A perfect Nash Bayesian equilibrium (PNBE) of a game is a quadruplet of strategies $[(e_1,t_1), (e_{11}(.),t_{11}(.)), f_1(.), f_2(.)]$ and a system of beliefs $[(p_1^-, p_1^+), (p_{11}^-(.), p_{11}^+(.))]$ that satisfies properties (1) and (2):

(1) For the system of beliefs $\left[\left(p_{1}^{-}, p_{1}^{+}\right), \left(p_{11}^{-}(\cdot), p_{11}^{+}(\cdot)\right)\right]$ and for any stage of the game the strategies of both players $\left[\left(e_{1}, t_{1}\right), \left(e_{11}(\cdot), t_{11}(\cdot)\right), f_{1}(\cdot), f_{2}(\cdot)\right]$ form a Nash Bayesian equilibrium (NBE).

(2) For the equilibrium strategies, the system of beliefs follows Bayes' rule.

Formally, this type of equilibrium is obtained by backward induction (Selten, 1965). In the next section we will determine the Nash Bayesian equilibria in anyone of the two periods of the game (since the rules of the game and the space of strategies are essentially the same in the first and in the second period).

2.2. Nash Bayesian equilibria

We will start by analyzing the outcome of the sub-game that takes place in each of the two periods under consideration as if it would be a static game in itself. This will allow us to compare the results in a static environment with the results in a dynamic framework. However, and in order to be able to use the results in the next sub-section, we will use the concept of Bayesian equilibrium.

In this game, a pure strategy for the leader is an amount of transfer t_1 , and a mixed strategy is a distribution of probability on \Re^+ (the set of all possible transfers). A pure strategy for the coalition is a function f_2 (.) which associates to its private information $t_2 \in [t_2^-, t_2^+]$ and to every proposed transfer t_1 an element $f_2(t_2, t_1)$ of the set of possible answers {a,r}. A mixed strategy for the coalition (noted $\mathbf{m}_2(f_2/t_2, t_1)$) is a family of probability distributions on {a, r} conditional to (t_2, t_1) .

Given our assumptions, we can limit the pure strategies of the leader (uninformed) to the non-dominated strategies $t_1 = t_2^+$ and $t_1 = t_2^-$, and to the mixed strategy $t_1 = \mathbf{a}t_2^+ + (1-\mathbf{a})t_2^-$ for $\alpha \in [0,1]$. If the leader adopts the pure strategy $t_1 = t_2^-$, the expected gain is:

$$E\boldsymbol{p}_{1}^{-} = p_{1}^{-}\boldsymbol{p}_{1} \left(e_{1}^{+} + e_{2}^{-}, t_{2}^{-} \right) + p_{1}^{+}\boldsymbol{p}_{1} \left(e_{1}^{+}, t_{2}^{-} \right),$$
(9)

and the t_2^+ -coalition will not accept the offer because the amount of transfer is lower than its expected amount. If the leader chooses $t_1 = t_2^+$, the expected gain is:

$$E\boldsymbol{p}_{1}^{+} = p_{1}^{-}\boldsymbol{p}_{1} (e_{1}^{-} + e_{2}^{-}, t_{2}^{+}) + p_{1}^{+}\boldsymbol{p}_{1} (e_{1}^{-} + e_{2}^{+}, t_{2}^{+}).$$
(10)

The pure strategy $t_1 = t_2^+$ is optimal if and only if the expected gain associated to $t_1 = t_2^+$ is strictly higher than the expected gain associated to $t_1 = t_2^-$. This gives:

$$p_{1}^{+} > \frac{\left[\boldsymbol{p}_{1}\left(\boldsymbol{e}_{1}^{+} + \boldsymbol{e}_{2}^{-}, \boldsymbol{t}_{2}^{-}\right) - \boldsymbol{p}_{1}\left(\boldsymbol{e}_{1}^{-} + \boldsymbol{e}_{2}^{-}, \boldsymbol{t}_{2}^{+}\right)\right]}{\boldsymbol{p}_{1}\left(\boldsymbol{e}_{1}^{-} + \boldsymbol{e}_{2}^{+}, \boldsymbol{t}_{2}^{+}\right) + \left[\boldsymbol{p}_{1}\left(\boldsymbol{e}_{1}^{+} + \boldsymbol{e}_{2}^{-}, \boldsymbol{t}_{2}^{-}\right) - \boldsymbol{p}_{1}\left(\boldsymbol{e}_{1}^{-} + \boldsymbol{e}_{2}^{-}, \boldsymbol{t}_{2}^{+}\right)\right]} = G.$$
(11)

When this condition holds, the Bayesian equilibrium is, for the leader, to play the strategy $t_1 = t_2^+$. That is, G gives us the minimum probability of being matched with a t_2^+ -coalition for which the leader is interested in offering a high amount of transfer. This transfer will be accepted by both types of coalition, since it is the maximum and they cannot expect a better offer.

If the inequality is reversed:

$$p_1^+ < \mathbf{G},\tag{12}$$

it is beneficial for the leader to propose $t_1 = t_2^-$. This is the minimum transfer and only the t_2^- coalition (the coalition that will provide the lowest level of effort) will accept it.

Finally, if we have:

$$p_1^+ = \mathbf{G},\tag{13}$$

the Bayesian equilibrium consists for the leader to play the strategy $t_1 = t_2^+$ with probability α and $t_1 = t_2^-$ with probability (1- α), for $\alpha \in [0,1]$. This means that the leader is indifferent about playing t_2^+ or t_2^- . The coalition will accept the level of transfer t_1^- if it is at least equal to the requested amount of transfer t_2 . This allows us to write the following proposition:

Proposition 1

The Nash Bayesian equilibrium is: (i) for the leader to propose:

 $t_1 = t_2^+$ if the beliefs of the uninformed player about the probability of being faced with a strong coalition are high ($p_1^+ > G$);

 $t_1 = t_2^-$ if this beliefs are low ($p_1^+ < G$);

 $t_1 = \mathbf{a}t_2^+ + (1-\mathbf{a})t_2^-$ for $\mathbf{a} \in [0,1]$ if this beliefs are $p_1^+ = G$.

(ii) for the coalition to accept any transfer such that $t_1 \ge t_2$.

The term in brackets in G (always positive) can be seen as the cost born by the leader when it proposes t_2^+ to a t_2^- -coalition (i.e. the cost associated to the asymmetry of information in favor of the coalition). Thus, G can be seen as a measure of the relative importance of this cost compared to the benefit obtained when t_2^+ was the right amount to offer since the coalition was t_2^+ (i.e. $\mathbf{p}_1(e_1^- + e_2^+, t_2^+)$). When this cost is high, the leader tends to offer a low amount of transfer whereas he tends to offer a low transfer if the opposite is true.

Formally, we can rewrite the results in proposition 1 and specify each of the Nash Bayesian equilibria based on the amount of transfers:

- either
$$t_1 = t_2^+$$
 and $[\mathbf{m}_2(a/t_2^-, t_1) = 1 \text{ and } \mathbf{m}_2(a/t_2^+, t_1) = 1];$
- or $t_1 = t_2^-$ and $[\mathbf{m}_2(a/t_2^-, t_1) = 1 \text{ and } \mathbf{m}_2(a/t_2^+, t_1) = 0];$
- or $t_1 = \mathbf{a}t_2^+ + (1-\mathbf{a})t_2^-$ for $\mathbf{a} \in [0,1]$ and
 $[\mathbf{m}_2(a/t_2^-, t_1) = 1 \text{ if } t_1 \ge t_2^-, = 0; \text{ and } \mathbf{m}_2(a/t_2^+, t_1) = 1 \text{ if } t_1 \ge t_2^+, = 0].$

As expected, the asymmetry of information reduces the optimality of negotiations, since several inefficient issues are conceivable. No-agreement may be the outcome or an agreement that does not reflect the type of the coalition. Actually, the responsibility for a positive outcome corresponds to the leader. The signature of an agreement depends upon its capacity to overcome the additional cost associated to the asymmetry of information. Even if this loss is tolerable (i.e. it is compensated by the gain resulting from cooperation), it reduces the expected gain of the leader.

2.3 Negotiation outcomes

We will now analyze the complete two stage game. We assume only two periods since we are interested in investigating the impact of the minimal amount of dynamics on the results. However, the approach could easily be extended to any (finite) number of periods. Nevetheless, increasing the number of periods does not really add anything substantial, while it obviously complicates the resolution. The negotiation outcomes are summarized in equations (2) and (3).

Proposition 2

If $p_1^+ > G$, a unique perfect Bayesian equilibrium exists: (i) for the leader:

either $t_1 = t_2^+$ *and* $t_{11}(t_1) = t_2^+$,

or $t_1 = \hat{t}_2$ and $t_{11}(t_1) = t_2^+$;

(ii) for the coalition:

$$\begin{split} \mathbf{m}_{2}(a / t_{2}^{+}, t_{1}) &= 1 \text{ for } t_{1} \geq t_{2}^{+}, = 0 \text{ otherwise,} \\ \mathbf{m}_{2}(a / t_{2}^{-}, t_{1}) &= 1 \text{ for } t_{1} \geq \hat{t}_{2}, \\ \mathbf{m}_{2}(a / t_{2}, t_{1}, t_{11}) &= 1 \text{ for } t_{11} \geq t_{2}, = 0 \text{ otherwise.} \end{split}$$

Proof : see appendix 1.

Consequently, with the conditions associated to proposition (2), we can distinguish two possible perfect Bayesian equilibria. In the first one, the leader proposes the highest amount of transfers at any period of the game. This is accepted in the first period by the coalition, whatever its type. In the second possible equilibrium, the leader proposes the average amount \hat{t}_2 in the first period and the maximum transfer t_2^+ in the second period. If the coalition is a t_2^- -coalition, it accepts \hat{t}_2 in the first period. If it is a t_2^+ -coalition, it will wait until the second period.

Proposition 3

If $p_1^+ < G$, there is a unique perfect Bayesian equilibrium: (i) for the leader:

either $t_1 = t_2^+$ and $[t_{11}(t_1) = t_2^+$ or $t_{11}(t_1) = t_2^-]$, or $t_1 = \hat{t}_2$ and $t_{11}(t_1) = t_2^+$, or $t_1 = t_2^-$ and $t_{11}(t_1) = t_2^-$ with probability

$$\boldsymbol{e}(t_1) > \frac{\boldsymbol{p}_2(e_1^+ + e_2^-, t_1) - \boldsymbol{d}_2 \boldsymbol{p}_2(e_1^- + e_2^-, t_2^-)}{\boldsymbol{d}_2[B_2(e_1^+ + e_2^-, t_2^-) - B_2(e_1^- + e_2^-, t_2^+)]};$$

(ii) for the coalition:

$$\mathbf{m}_{2}(a / t_{2}^{+}, t_{1}) = 1 \text{ for } t_{1} \ge t_{2}^{+}, = 0 \text{ otherwise,}$$

$$\mathbf{m}_{2}(a / t_{2}^{-}, t_{1}) = 1 \text{ for } t_{1} \ge \hat{t}_{2}, = \frac{G - p_{1}^{+}}{G(1 - p_{1}^{+})} \text{ otherwise,}$$

$$\mathbf{m}_{2}(a / t_{2}, t_{1}, t_{11}) = 1 \text{ for } t_{11} \ge t_{2}, = 0 \text{ otherwise.}$$

Proof : see appendix 2.

Proposition (3) shows that, depending on the parameters of the model, three equilibria are possible. If the leader opens the negotiations by offering the maximum amount of transfer, the coalition accepts it in the first period, whatever the type of the coalition. On the contrary, if the leader proposes the average amount of transfer \hat{t}_2 , only a t_2^- -coalition accepts it. In this case, the leader proposes in the second period the maximum transfer, which is always accepted. Thus, the asymmetry of information tends to reduce the leading position of the leader. Finally, if the minimum amount of transfer is proposed in the first period and again, with a probability $\boldsymbol{e}(t_1)$, in the second period, the coalition accepts only if it is a t_2^- -coalition. More precisely, the coalition accepts the offer with a certain probability in the first period, and always in the second period if they refused it in the first.

Extending negotiations for a finite number of periods does not ensure a less costly agreement for the leader. Even more, the repetition can be disadvantageous for them. Indeed, even if negotiations begin with a low amount of transfer, a coalition that has low requirements and that anticipates for the following period a higher proposition (with a probability 1- $e(t_1)$), may behave as if it had higher demands. Thus, a refusal will not necessarily provide reliable information about the type of the coalition. Moreover, when the leader gets a refusal, it has to wait longer to obtain an agreement, which is an additional cost. In any case, propositions (2) and (3) show that, although information is acquired during the negotiation due to the Bayesian revision of the *a priori* probabilities, this does not ensure the signature of the agreement in the first period. Thus, a first rank optimum will not necessary be obtained, since the discount factors are strictly lower than one.

3. The model with the possibility of scission in the coalition

3.1 Nash Bayesian equilibria

Until now, we have considered the coalition as a stable coalition. This assumption reduces the space of strategies of the members forming this coalition. Although this member can be countries, football players or whatever, we will call them countries from now on to simplify the exposition. When the coalition is a t_2^+ coalition, its behavior is rather intransigent: it commits itself only with an agreement on a high amount of transfer. We now consider that a coalition with high claims may adapt its behavior to the offer of the leader. For a small offer of amount of transfer, this coalition may split up into two sub-coalitions. Countries for which the transfer that is proposed is equal to the sum of their claims form one sub-coalition (the t_2^- -coalition). More demanding countries form another sub-coalitions still equals t_2^+ , with $t_2^+ - t_2^- > t_2^-$. In this context, negotiations may finish in the first period with one subcoalition and continue only with the stronger sub-coalition in the second period.

We suppose that the sub-coalition which has more (respectively less) demanding claims, ie the $(t_2^+ - t_2^-)$ -sub-coalition (respectively the t_2^- -sub-coalition), represents a proportion equal to **b** (respectively 1- **b**). We obtain for a offer $t_1 = t_2^-$ of the leader:

$$E\boldsymbol{p}_{1}^{-} = p_{1}^{-}\boldsymbol{p}_{1} (e_{1}^{+} + e_{2}^{-}, t_{2}^{-}) + p_{1}^{+} [\boldsymbol{b}\boldsymbol{p}_{1} (e_{1}^{+}, t_{2}^{-}) + (1 - \boldsymbol{b})\boldsymbol{p}_{1} (e_{1}^{+} + e_{2}^{-}, t_{2}^{-})].$$
(14)

When he offers $t_1 = t_2^+$, $E \mathbf{p}_1^+$ is given by equation (10). Using:

$$H = \frac{\boldsymbol{p}_{1} \left(e_{1}^{+} + e_{2}^{-}, t_{2}^{-} \right) - \boldsymbol{p}_{1} \left(e_{1}^{-} + e_{2}^{-}, t_{2}^{+} \right)}{\boldsymbol{p}_{1} \left(e_{1}^{-} + e_{2}^{+}, t_{2}^{+} \right) + \boldsymbol{b} \boldsymbol{p}_{1} \left(e_{1}^{+} + e_{2}^{-}, t_{2}^{-} \right) - \boldsymbol{p}_{1} \left(e_{1}^{-} + e_{2}^{-}, t_{2}^{+} \right)} \quad , \tag{15}$$

we can write the following proposition:

Proposition 4

With the possibility of scission in the coalition, the Nash Bayesian equilibrium is:

(*i*) if $p_1^+ > H$, the leader proposes $t_1 = t_2^+$, which is accepted by the coalition whatever its type; (*ii*) if $p_1^+ < H$, the leader proposes $t_1 = t_2^-$, which is accepted by a t_2^- -coalition and by a t_2^- -sub-coalition;

(iii) if $p_1^+ = H$, the leader proposes $t_1 = t_2^+$ with any probability and $t_1 = t_2^-$ with the complementary probability. The offer is accepted by a t_2 -coalition if $t_1 \ge t_2$ and by a t_2^- -sub-coalition if $t_2 > t_1$.

Comparing Propositions (1) and (4) we can write the following corollary:

Corollary 1

The probability of reaching an agreement is larger with the possibility of a scission. The probability of reaching an agreement based on a high amount of transfers is smaller with this option.

Proof: direct from propositions (1) and (2) since $G \le H$ given that $0 \le \mathbf{b} \le 1$.

Hence, while the space of strategies is wider for a t_2^+ -coalition with the possibility of scission, the possibility of reaching an agreement based on a high amount of transfer is reduced. Thus, the leader will be more willing to propose a higher level of transfer in the game where it may deal with an uncompromising t_2^+ -coalition (i.e. a coalition without the possibility of scission) than in the case where a scission may occur. The intuition behind this result lies in the difficulty to reach an agreement. In the game where the coalition may be either a t_2^- -coalition or an uncompromising t_2^+ -coalition, negotiations may fail if the offer of the leader is not high enough (if the coalition is of the type t_2^+). By adopting the "all or nothing" strategy, an uncompromising coalition faces the leader with an ultimatum. Since the coalition knows its influence, it will reject any compromise which fails to meet its demands.

To avoid the failure of negotiations, the leader has to offer $t_1 = t_2^+$. This ultimatum situation overwhelms the problem of potential free-riding by the t_2^- -coalition. On the contrary, in the game with the possibility of scission, since some of the members of the coalition may accept to adapt to the offer of the leader, the leader takes the signature of an agreement for granted. Since he is no longer threatened by a negotiations failure, the leader will try to minimize the risk of opportunist behavior from a t_2^- -coalition. Thus, the leader will be more willing to propose a low amount of transfer and the probability of reaching an agreement on a high amount of transfer shrinks. This is confirmed by the fact that the H-bound is a decreasing function of **b**. The higher the proportion of the coalition that would refuse the t_2^- offer, the nearer we come to the situation where the coalition is uncompromising. Therefore, the leader is interested in avoiding the failure of negotiations.

3.2. Negotiation outcomes

We will know analyze the complete two period game with the possibility of scission. In this configuration, if a proposition t_1 during the first period is strictly lower than t_2^+ , then a t_2^+ coalition may split up (or not). In this last section, we combine the three main characteristics of negotiations: dynamics, asymmetric information and the possibility of scission. We can write propositions (5) and (6).

Proposition 5

If the proportion (\mathbf{b}) of countries inside the coalition with strong demands checks

$$\boldsymbol{b} > \frac{2\,\boldsymbol{m}_{2}\,(r\,/\,t_{2}^{-},\,t_{1})}{1+\,\boldsymbol{m}_{2}\,(r\,/\,t_{2}^{-},\,t_{1})},\tag{16}$$

there is a unique perfect Bayesian equilibrium. The equilibrium strategies for the leader are:

 $t_1 \in [t_2^-, t_2^+]$ and $t_{11}(t_1) = t_2^+$ or $t_{11}(t_1) = t_2^+ - t_2^-$, and for the coalition:

$$\mathbf{m}_{2}(a / t_{2}^{+}, t_{1}) = 1 \text{ for } t_{1} \ge t_{2}^{+}, = 1 - \mathbf{b} \text{ for } t_{2}^{+} > t_{1} \ge \hat{t}_{2}, = 0 \text{ otherwise},$$

 $\mathbf{m}_{2}(a / t_{2}^{-}, t_{1}) = 1 \text{ for } t_{1} \ge \hat{t}_{2}, = 0 \text{ otherwise},$
 $\mathbf{m}_{2}(a / t_{2}, t_{1}, t_{11}) = 1 \text{ for } t_{11} \ge t_{2}, = 0 \text{ otherwise}.$

Proof: see appendix 3.

Proposition 6

If the proportion (b) of countries inside the coalition with strong demands checks

$$\boldsymbol{b} < \frac{2\,\boldsymbol{m}_{2}(r\,/\,\boldsymbol{t}_{2}^{-},\,\boldsymbol{t}_{1})}{1+\,\boldsymbol{m}_{2}(r\,/\,\boldsymbol{t}_{2}^{-},\,\boldsymbol{t}_{1})},\tag{17}$$

there is a unique perfect Bayesian equilibrium. The equilibrium strategies for the leader are:

either $t_1 \in [t_2^-, \hat{t}_2[$ and $t_{11}(t_1) = t_2^-$ or $t_{11}(t_1) = t_2^+ - t_2^-$

or
$$t_1 \in [\hat{t}_2, t_2^+]$$
 and $t_{11}(t_1) = t_2^+$ or $t_{11}(t_1) = t_2^+ - t_2^-$;

and for the coalition:

 $\mathbf{m}_{2}(a / t_{2}^{+}, t_{1}) = 1 \text{ for } t_{1} \ge t_{2}^{+}, = 1 \cdot \mathbf{b} \text{ for } t_{2}^{+} > t_{1} \ge \hat{t}_{2}, = 0 \text{ otherwise}$ $\mathbf{m}_{2}(a / t_{2}^{-}, t_{1}) = 1 \text{ for } t_{1} \ge \hat{t}_{2}, = 0 \text{ otherwise}$ $\mathbf{m}_{2}(a / t_{2}, t_{1}, t_{11}) = 1 \text{ for } t_{11} \ge t_{2}, = 0 \text{ otherwise}.$

Proof : same principle as the proof in appendix (3).

Proposition (5) shows that when the offer is rejected in the first period, an agreement will always be signed at the second period, based on the maximum transfer. Since the proportion of countries with strong demands inside the coalition is high, the leader will offer t_2^+ in the second period. With an offer in the interval $[t_2^-, t_2^+]$, a refusal in the first period leads the leader to determine with certainty his interlocutor's type. If the initial offer was rejected by the whole coalition, the leader will propose t_2^+ in the second period. If a scission appeared in the first period and only a sub-coalition rejected the offer (i.e. when the initial offer checked $t_2^+ > t_1 \ge \hat{t}_2$), the leader will propose $(t_2^+ - t_2^-)$ to this sub-coalition in the second period.

As Proposition (6) shows, when the proportion of strong countries within the coalition is low, the leader proposes t_2^- in the second period. When the leader is faced with a refusal to an offer comprised in $[t_2^-, \hat{t}_2]$ in the first period, he is not able to determine with certainty the type of the coalition. Thus, he will adopt a precautionary strategy and offer t_2^- in the second period. This may lead to the failure of the negotiations if the type of the coalition is t_2^+ . Finally, if the weak coalition (t_2^- -coalition) refuses the proposition in the first period to accept that of the second period, we get a configuration for which by prolonging the negotiation, it looses all the advantages that it had due to its private information. Remark that in propositions (5) and (6) the bound separating one or another proposal from the leader is not anymore the beliefs about the strength/weakness of the coalition $(p_1^+ \text{ or } p_{11}^+)$ but the proportion of strong (weak) members forming the original coalition (**b**). That is:

Corollary 2

If a scission is possible and the proportion of weak/strong members of the coalition is known, the system of beliefs $\left[\left(p_{1}^{-}, p_{1}^{+}\right), \left(p_{11}^{-}(\cdot), p_{11}^{+}(\cdot)\right)\right]$ plays no role in shaping the offers of the leader.

Proof: direct from propositions (5) and (6).

At least since Riker (1962) we know that coalitions tend to split up to its minimum expression, however, what we have shown here is that even before they have split up the leader of the negotiation does not anymore "see" the nominal coalition and already focuses on the proportion of strong/weak members while shaping his offers. However, whatever the value of \boldsymbol{b} we have situations where the coalitions stays together and only single offers and unique answers are observed, so that a model assuming that the coalition does not really exist would miss the point.

We can now compare negotiations with and without the possibility of scission. Without the possibility of scission, an agreement will only be reached if the coalition gets at least its minimum requirements. On the contrary, with the possibility of scission we can obtain as many possible agreements as possible amounts of transfers exist. Therefore, the leader should prefer to enter negotiations when a scission is still possible. The scission allows the formation of a sub-coalition that adapts its behavior to the leader's proposal, even if the initial coalition was potentially able to demand more. The probability of reaching an agreement is higher, but based on reduced objectives.

From the point of view of a strong coalition (t_2^+ -coalition), the absence of the possibility of scission increases its credibility vis-à-vis the leader. Since the t_2^+ -coalition knows its informational power, it will choose, if this option is available, not to have the possibility of scission to make this power effective. This alternative is even more attractive since this commitment implies significant transfers. Thus, it becomes possible to explain the stability of the coalition based on the capacity of the members of the coalition to preserve their private

information. The asymmetry of information strategically favors them as long as they remain within the same coalition. Producing a scission will automatically reveal the characteristics of the coalition. Thus, in spite of the asymmetry of information, the game will turn in favor of the leader. On the contrary, banning the possibility of a scission forces the leader into a negotiation with a reduced probability of reaching an agreement, and forces him to propose a high amount of transfers.

Coming back to our examples, we have shown that when negotiating with the United States the European Union should try to preclude any scission if it wants to keep the advantages of its private information and to have high chances to obtain an important transfer (e.g. political concessions). Of course, on the other hand, the United States are interested in "dividing to conquer" if the scission is possible. As stated above, the G77 and China have tried to follow the first line in climate change negotiations, while the National Football League followed the second line in the 1981's labor negotiations.

4. Conclusion

This paper has analyzed strategic bargaining in negotiations between non-monolithic players, in the sense that the agents starting negotiations can split-up in smaller entities during the bargaining process. We have shown that the possibility of scission in the informed coalition implies that it looses its information advantages. We have also shown that with the possibility of scission the uninformed player does not focus on his or her beliefs about the strength of the informed coalition but on the proportion of weak/strong players within this coalition. Finally, we have shown that the absence of the possibility of scission increases the chances to obtain an agreement based on high amount of transfers, while the possibility of scission increases the chances to obtain an agreement, but based on more modest objectives. Examples in international negotiations on global public goods, such as war against international terrorism or climate change, and in wage negotiations have shown the relevance of explicitly considering the possibility of scission when modeling negotiations between non-monolithic players (i.e. a coalition of countries, such as the European Union or the G77 and China, or a trade union).

References

- Bloch, F., 1996. Sequential Formation of Coalitions in Games with Externalities and Fixed Payoff Division. *Games and Economic Behavior* 14: 90-123.
- Caparrós A., Péreau J.C. and Tazdaït T., 2004. North-South Climate Change Negotiations: A Sequential Game with Asymmetric Information. *Public Choice* 121: 455-480.
- Chaterjee, K., Dutta, B., Ray, D. and Sengupta, K., 1993. A Noncooperative Theory of Coalitional Bargaining. *Review of Economic Studies* 60: 463-477.
- Fudenberg, D. and Tirole, J., 1983, Sequential Bargaining with Incomplete Information, *Review of Economic Studies* 50, 221-247.
- Garfinkel, M.R., 2004. Stable alliance formation in distributional conflict. *European Journal of Political Economy* 20: 829-852.
- Lax, D. and Sebenius, J.K., 1992. Thinking coalitionally: parthy arithmetic, process opportunism, and strategic sequencing. In: H-P. Young (ed.) *Negotiation Analysis*. The University of Michigan Press, Michigan.
- Manzini, P. and Mariotti, M., 2005. Alliances and Negotiations. *Journal of Economic Theory* 121(1): 128-141.
- Perea y Monsuwé, P., Jansen, M. and Vermeulen, D., 2000. Player Splitting in Extensive Form Games. *International Journal of Game Theory* 29: 433-450.
- Perry M. and Reny P., 1994. A Non-Cooperative View of Coalition Formation and the Core. *Econometrica* 62: 795-817.
- Ray D. and Vohra R., 1999. A Theory of Endogenous coalition Structure. *Games and Economic Behavior* 26: 286-336.
- Riker, W., 1962. The Theory of Political Coalitions. Yale University Press, New Haven.
- Rubinstein, A., 1982. Perfect Equilibrium in a Bargaining Model. *Econometrica* 50: 97-108.
- Sandler, T. and Hartley, K., 2001. Economics of alliances: the lessons for collective action. *Journal of Economic Literature* 39: 869-896.
- Selten, R., 1965. Spieltheoretiche Behandlung eines Oligopolmodelles mit Nachfrageträgheit. Zeitschrift für die Gesamte Staatswissenschaft 12: 301-324.

Appendix 1: Proof of proposition (2)

- Suppose an equilibrium in which the transfer announced during the first period by the leader is $t_1 \in [t_2^-, t_2^+]$. If this transfer is refused, the leader reviews its beliefs with Bayes' rule:

$$p_{11}^{-} = \frac{p(e_2^{-}, r/t_1)}{p(r)} = \frac{\mathbf{m}_2(r/\overline{t}, t_1)p_1^{-}}{p(r)},$$

with:

$$\mathbf{p}(\mathbf{r}) = \mathbf{m}_{2}(r/t_{2}^{-}, t_{1})p_{1}^{-} + \mathbf{m}_{2}(r/t_{2}^{+}, t_{1})p_{1}^{+}$$

Since $m_2(r/t_2^+, t_1) = 1$ for $t_1 < t_2^+$, we get:

$$p_{11}^{-} = \frac{\boldsymbol{m}_{2}(r/t_{2}^{-}, t_{1}) p_{1}^{-}}{\boldsymbol{m}_{2}(r/t_{2}^{-}, t_{1}) p_{1}^{-} + p_{1}^{+}} \quad \text{and} \quad p_{11}^{+} = 1 - p_{11}^{-} = \frac{p_{1}^{+}}{\boldsymbol{m}_{2}(r/t_{2}^{-}, t_{1}) p_{1}^{-} + p_{1}^{+}}$$

Since we are in the case where: $p_1^+ > G$, for any $t_1 \in [t_2^-, t_2^+]$ and for any $\mathbf{m}_2(r/t_2^-, t_1)$, we have $p_{11}^- < p_1^-$, $p_{11}^+ > p_1^+$ and $E\mathbf{p}_{11}^+ > E\mathbf{p}_1^- \ge E\mathbf{p}_{11}^-$. This last condition gives:

$$p_{11} \mathbf{p}_1 (e_1^- + e_2^-, t_2^+) + p_{11}^+ \mathbf{p}_1 (e_1^- + e_2^+, t_2^+) > p_1^- \mathbf{p}_1 (e_1^+ + e_2^-, t_2^-) \ge p_{11}^- \mathbf{p}_1 (e_1^+ + e_2^-, t_2^-).$$

The left hand side of the inequality is the net expected gain of the leader at the second period, estimated at the beginning of the second period when t_2^+ was proposed. The right hand side represents the net gain when t_2^- was proposed. Thus, for any equilibrium satisfying $t_1 \in [t_2^-, t_2^+]$ and where the coalition refuses the offer, the leader will propose t_2^+ in the second period.

- In any equilibrium with $t_1 \in [t_2^-, t_2^+[$, only the t_2^- -coalition could accept the offer in the first period and, by definition of \hat{t}_2 , we have $\mathbf{m}_2(a/t_2^-, t_1) = 1$ if $t_1 \ge \hat{t}_2$, = 0 otherwise. Proposition (2) indicates the coalition's behavior in the second period. In any equilibrium of this kind, the expected gain for the leader is: $p_1^-\mathbf{p}_1(e_1^+ + e_2^-, t_1) + \mathbf{d}_1 p_1^+\mathbf{p}_1(e_1^- + e_2^+, t_2^+)$ if $t_1 \ge \hat{t}_2$.

- The leader is not interested in deviating from this equilibrium. Since his characteristics are known by the coalition, he cannot modify the coalition's beliefs by playing a strategy outside the equilibrium.

- The coalition is not interested in deviating from the equilibrium either. A deviation consists for the coalition in changing its response to the first proposition of the leader. However, since the leader will play at the equilibrium, in any case, t_2^+ in the second period, such deviation is unfavorable for the coalition.

Appendix 2: Proof of proposition (3)

- If $t_1 = t_2^+$, the coalition accepts the offer whatever its type. Indeed: $\mathbf{m}_2(a/t_2, t_2^+) = 1 \quad \forall t_2 \ge t_2^+$. The negotiation is over in the first period and the net gain for the leader is:

$$E\boldsymbol{p}_{1}^{+} = p_{1}^{-}\boldsymbol{p}_{1}(e_{1}^{-} + e_{2}^{-}, t_{2}^{+}) + p_{1}^{+}\boldsymbol{p}_{1}(e_{1}^{-} + e_{2}^{+}, t_{2}^{+})$$

- If $t_1 \in [\hat{t}_2, t_2^+[$, by definition of \hat{t}_2 , the coalition does not accept if it is an t_2^- -type, since in this case $\mathbf{m}_2(a/t_2^-, t_1) = 1$, by definition of \hat{t}_2 since in all cases $t_2 \leq t_2^+$. On the contrary, if the coalition is a t_2^+ -type, it will refuse the offer since $\mathbf{m}_2(a/t_2^+, t_1) = 0$. Hence: $p_{11}^+=1$. Thus, in case of refusal in the first period, the leader knows that it faces a t_2^+ -coalition and will propose t_2^+ . Their expected gain is $p_1^-\mathbf{p}_1(e_1^+ + e_2^-, t_1) + \mathbf{d}_1 p_1^+\mathbf{p}_1(e_1^- + e_2^+, t_2^+)$. This expression is maximal for $t_1 = \hat{t}_2$.

- If $\hat{t}_2 > t_1 \ge t_2^-$, we will suppose that the proposition t_1 has been refused, in order to determine the offer in the second period. In this case: $\mathbf{m}_2(a/t_2^+, t_1) = 0$.

Let **g** be the value of $\mathbf{m}_2(a/t_2^-, t_1)$ that leaves the leader indifferent between t_2^- and t_2^+ in the second period when the t_2^+ -coalition refuses t_1 .

As shown in appendix (1), the reviewed distribution of probabilities of the leader about the type of the coalition is:

$$p_{11}^- = \frac{(1-\boldsymbol{g})p_1^-}{(1-\boldsymbol{g})p_1^- + p_1^+} = \frac{(1-\boldsymbol{g})p_1^-}{1-\boldsymbol{g}p_1^-}$$
 and $p_{11}^+ = 1 - p_{11}^- = \frac{1-p_1^-}{1-\boldsymbol{g}p_1^-}$

But, since the leader is indifferent about the gains obtained by strategies $t_{11} = t_2^+$ and $t_{11} = t_2^-$, *g* satisfies:

$$\frac{p_1^+}{1-\boldsymbol{g}p_1^-}\boldsymbol{p}_1\left(e_1^-+e_2^+,t_2^+\right)+\frac{(1-\boldsymbol{g})p_1^-}{1-\boldsymbol{g}p_1^-}\boldsymbol{p}_1\left(e_1^-+e_2^-,t_2^+\right)=\frac{(1-\boldsymbol{g})p_1^-}{1-\boldsymbol{g}p_1^-}\boldsymbol{p}_1\left(e_1^++e_2^-,t_2^-\right)$$

or:

$$\mathbf{g} = \frac{G - p_1^+}{G(1 - p_1^+)} < 1$$

Hence, we will show that when $\hat{t}_2 > t_1 \ge t_2^-$:

$$\mathbf{m}_{2}(a/t_{2}^{-},t_{1})=\mathbf{g}.$$

We know that undominated pure strategies of the leader in the second period are $t_{11} = t_2^+$ and $t_{11} = t_2^-$. Thus, t_2^+ is preferred to t_2^- if and only if:

$$\mathbf{m}_{2}(a/t_{2}^{-},t_{1}) > \frac{G-p_{1}^{+}}{G(1-p_{1}^{+})}$$

In general: (i) the leader plays $t_{11}(t_1) = t_2^+$ if and only if $\mathbf{m}_2(a/t_2^-, t_1) > \mathbf{g}$; (ii) plays $t_{11}(t_1) = t_2^-$ if and only if $\mathbf{m}_2(a/t_2^-, t_1) < \mathbf{g}$; and (iii) plays some mixed strategy on $[t_2^-, t_2^+]$, that we note $[\mathbf{e}(t_1), 1 - \mathbf{e}(t_1)]$, if and only if $\mathbf{m}_2(a/t_2^-, t_1) = \mathbf{g}$. Consequently, three cases have to be considered.

 $l^{st} case: \mathbf{m}_2(a / t_2^-, t_1) > \mathbf{g}.$

In this case the leader plays $t_{11}(t_1) = t_2^+$ in the second period. The t_2^- -coalition which anticipates this strategy, never accepts a proposition $t_1 < \hat{t}_2$ in the first period. Hence, $\forall t_1 \in [t_2^-, \hat{t}_2[$ $\mathbf{m}_2(a/t_2^-, t_1)=0$, which contradicts the hypothesis $\mathbf{m}_2(a/t_2^-, t_1) > \mathbf{g}$. Thus, this case is impossible.

$$2^{nd}$$
 case: $\mathbf{m}_2(a/t_2^-, t_1) < \mathbf{g}$.

The coalition knows that the leader will propose $t_{11} = t_2^-$ in the second period. They are interested in accepting any offer $t_1 \in [t_2^-, \hat{t}_2^-]$. Hence, $\mathbf{m}_2(a/t_2^-, t_1) = 1 \quad \forall t_1 \in [t_2^-, \hat{t}_2^-]$, and we find another contradiction. Thus, $\forall t_1 \in [t_2^-, \hat{t}_2^-]$ we must have:

 $\mathbf{m}_2(a/t_2^-,t_1)=\gamma \quad .$

In this case both coalitions adopt a mixed strategy. The question is now how to make the associated probabilities compatible to get a perfect Bayesian equilibrium.

Since the t_2^- -coalition plays a mixed strategy (to accept the strategy t_1 with a probability $g \in [0,1[)$, it is indifferent about accepting t_1 or refusing t_1 . If it accepts, its net gain is: $p_2(e_1^+ + e_2^-, t_1)$. If it refuses, its expected net gain is:

$$E\boldsymbol{p}_{2}(e_{1}^{+}+e_{2}^{-},t_{11}) = \boldsymbol{d}_{2}[\boldsymbol{e}(t_{1})\boldsymbol{p}_{2}(e_{1}^{+}+e_{2}^{-},t_{1}^{-}) + (1-\boldsymbol{e}(t_{1}))\boldsymbol{p}_{2}(e_{1}^{-}+e_{2}^{-},t_{2}^{+})$$

Thus, we must have:

$$\boldsymbol{p}_{2}(e_{1}^{+}+e_{2}^{-},t_{1})=E\boldsymbol{p}_{2}(e_{1}^{+}+e_{2}^{-},t_{11}),$$

or:

$$\boldsymbol{e}(t_1) = \frac{\boldsymbol{p}_2(e_1^+ + e_2^-, t_1) - \boldsymbol{d}_2 \boldsymbol{p}_2(e_1^- + e_2^-, t_2^+)}{\boldsymbol{d}_2[B_2(e_1^+ + e_2^-, t_2^-) - B_2(e_1^- + e_2^-, t_2^+)]}$$

Since we know the values of g and $e(t_1)$, we can calculate the expected gain for the leader associated to this mixed strategy:

$$E\boldsymbol{p}_{1} = p_{1}\boldsymbol{g}_{1}\boldsymbol{p}_{1} (e_{1}^{+} + e_{2}^{-}, t_{1}) + \frac{(1-\boldsymbol{g})p_{1}^{-}}{1-\boldsymbol{g}p_{1}^{-}} \boldsymbol{d}_{1}\boldsymbol{p}_{1} (e_{1}^{+} + e_{2}^{-}, t_{2}^{-}).$$

This gain is maximized with $t_1 = t_2^-$. Thus, the leader adopts the strategy: $t_1 = t_2^-$, $t_{11}(t_1) = t_2^$ with a probability $\boldsymbol{e}(t_1)$, and $t_{11}(t_1) = t_2^+$ with the complementary probability.

Appendix 3: Proof of proposition (5)

To have a complete proof, follow the same reasoning as for proposition (2). We will just show that in the second period, the leader will propose t_2^+ under condition (16). We consider the case in which: (i) the offer t_1 has been refused, and (ii) the leader reviews its beliefs according to Bayes' rule and adopts the optimal strategy $t_{11}(t_1) = t_2^+$ if and only if $E\mathbf{p}_{11}^+ > E\mathbf{p}_{11}^-$. Thus:

$$p_{11}^- = \frac{\boldsymbol{m}_2(r/t_2^-, t_1)(2-\boldsymbol{b})p_1^-}{p(r)}$$
 and $p_{11}^+ = \frac{\boldsymbol{b}p_1^+}{p(r)}$,

with:

$$p(r) = \mathbf{m}_{2}(r/t_{2}^{-}, t_{1})p_{1}^{-} + \mathbf{m}_{2}(r/t_{2}^{-}, t_{1})(1-\mathbf{b})p_{1}^{-} + \mathbf{m}_{2}(r/t_{2}^{+}-t_{2}^{-}, t_{1})\mathbf{b}p_{1}^{+}$$

= $\mathbf{m}_{2}(r/t_{2}^{-}, t_{1})(2-\mathbf{b})p_{1}^{-} + \mathbf{b}p_{1}^{+}$

.

Condition (16) can be deduced from the following inequalities:

$$p_{11}^- < p_1^-$$
 and $p_{11}^+ > p_1^+$

NOTE DI LAVORO DELLA FONDAZIONE ENI ENRICO MATTEI

Fondazione Eni Enrico Mattei Working Paper Series

http://www.feem.it/Feem/Pub/Publications/WPapers/default.html http://www.ssrn.com/link/feem.html

http://www.repec.org

NOTE DI LAVORO PUBLISHED IN 2004

IEM	1.2004	Anil MARKANDYA, Suzette PEDROSO and Alexander GOLUB: Empirical Analysis of National Income and So2 Emissions in Selected European Countries
ETA	2.2004	Masahisa FUJITA and Shlomo WEBER: Strategic Immigration Policies and Welfare in Heterogeneous Countries
PRA	3.2004	Adolfo DI CARLUCCIO, Giovanni FERRI, Cecilia FRALE and Ottavio RICCHI: Do Privatizations Boost Household Shareholding? Evidence from Italy
ETA	4.2004	Victor GINSBURGH and Shlomo WEBER: Languages Disenfranchisement in the European Union
ETA	5.2004	Romano PIRAS: Growth, Congestion of Public Goods, and Second-Best Optimal Policy
CCMP	6.2004	Herman R.J. VOLLEBERGH: Lessons from the Polder: Is Dutch CO2-Taxation Optimal
PRA	7.2004	Sandro BRUSCO, Giuseppe LOPOMO and S. VISWANATHAN (lxv): Merger Mechanisms
PRA	8.2004	Wolfgang AUSSENEGG, Pegaret PICHLER and Alex STOMPER (lxv): IPO Pricing with Bookbuilding, and a When-Issued Market
PRA	9.2004	Pegaret PICHLER and Alex STOMPER (lxv): Primary Market Design: Direct Mechanisms and Markets
PRA	10.2004	<i>Florian ENGLMAIER, Pablo GUILLEN, Loreto LLORENTE, Sander ONDERSTAL and Rupert SAUSGRUBER</i> (lxv): The Chopstick Auction: A Study of the Exposure Problem in Multi-Unit Auctions
PRA	11.2004	Bjarne BRENDSTRUP and Harry J. PAARSCH (lxv): Nonparametric Identification and Estimation of Multi- Unit, Sequential, Oral, Ascending-Price Auctions With Asymmetric Bidders
PRA	12.2004	Ohad KADAN (lxv): Equilibrium in the Two Player, k-Double Auction with Affiliated Private Values
PRA	13.2004	Maarten C.W. JANSSEN (lxv): Auctions as Coordination Devices
PRA	14.2004	Gadi FIBICH, Arieh GAVIOUS and Aner SELA (lxv): All-Pay Auctions with Weakly Risk-Averse Buyers
PRA	15.2004	Orly SADE, Charles SCHNITZLEIN and Jaime F. ZENDER (lxv): Competition and Cooperation in Divisible
IKA		Good Auctions: An Experimental Examination
PRA	16.2004	Marta STRYSZOWSKA (lxv): Late and Multiple Bidding in Competing Second Price Internet Auctions
CCMP	17.2004	Slim Ben YOUSSEF: R&D in Cleaner Technology and International Trade
NRM	18.2004	<i>Angelo ANTOCI, Simone BORGHESI and Paolo RUSSU</i> (lxvi): <u>Biodiversity and Economic Growth:</u> Stabilization Versus Preservation of the Ecological Dynamics
SIEV	19.2004	Anna ALBERINI, Paolo ROSATO, Alberto LONGO and Valentina ZANATTA: Information and Willingness to
SIEV	19.2004	Pay in a Contingent Valuation Study: The Value of S. Erasmo in the Lagoon of Venice
NRM	20.2004	Guido CANDELA and Roberto CELLINI (Ixvii): Investment in Tourism Market: A Dynamic Model of
		Differentiated Oligopoly
NRM	21.2004	Jacqueline M. HAMILTON (lxvii): Climate and the Destination Choice of German Tourists
NRM	22.2004	Javier Rey-MAQUIEIRA PALMER, Javier LOZANO IBÁÑEZ and Carlos Mario GÓMEZ GÓMEZ (Ixvii):
	22.2004	Land, Environmental Externalities and Tourism Development
NRM	23.2004	Pius ODUNGA and Henk FOLMER (lxvii): Profiling Tourists for Balanced Utilization of Tourism-Based
		Resources in Kenya
NRM	24.2004	Jean-Jacques NOWAK, Mondher SAHLI and Pasquale M. SGRO (lxvii): Tourism, Trade and Domestic Welfare
NRM	25.2004	Riaz SHAREEF (lxvii): Country Risk Ratings of Small Island Tourism Economies
NRM	26.2004	Juan Luis EUGENIO-MARTÍN, Noelia MARTÍN MORALES and Riccardo SCARPA (Ixvii): Tourism and
		Economic Growth in Latin American Countries: A Panel Data Approach
NRM	27.2004	Raúl Hernández MARTÍN (lxvii): Impact of Tourism Consumption on GDP. The Role of Imports
CSRM	28.2004	Nicoletta FERRO: Cross-Country Ethical Dilemmas in Business: A Descriptive Framework
NRM	29.2004	Marian WEBER (lxvi): Assessing the Effectiveness of Tradable Landuse Rights for Biodiversity Conservation: an Application to Canada's Boreal Mixedwood Forest
NRM	30.2004	<i>Trond BJORNDAL, Phoebe KOUNDOURI and Sean PASCOE</i> (lxvi): <u>Output Substitution in Multi-Species</u> Trawl Fisheries: Implications for Quota Setting
CCMP	31.2004	Marzio GALEOTTI, Alessandra GORIA, Paolo MOMBRINI and Evi SPANTIDAKI: Weather Impacts on Natural, Social and Economic Systems (WISE) Part I: Sectoral Analysis of Climate Impacts in Italy
		Marzio GALEOTTI, Alessandra GORIA , Paolo MOMBRINI and Evi SPANTIDAKI: Weather Impacts on
CCMP	32.2004	Natural, Social and Economic Systems (WISE) Part II: Individual Perception of Climate Extremes in Italy
CTN	33.2004	Wilson PEREZ: Divide and Conquer: Noisy Communication in Networks, Power, and Wealth Distribution
KTHC	34.2004	<i>Gianmarco I.P. OTTAVIANO and Giovanni PERI</i> (lxviii): <u>The Economic Value of Cultural Diversity: Evidence</u> <u>from US Cities</u>
KTHC	35.2004	Linda CHAIB (Ixviii): Immigration and Local Urban Participatory Democracy: A Boston-Paris Comparison

Our Note di Lavoro are available on the Internet at the following addresses:

KTHC	36.2004	<i>Franca ECKERT COEN and Claudio ROSSI</i> (lxviii): <u>Foreigners, Immigrants, Host Cities: The Policies of</u> Multi-Ethnicity in Rome. Reading Governance in a Local Context
		Kristine CRANE (lxviii): Governing Migration: Immigrant Groups' Strategies in Three Italian Cities – Rome.
KTHC	37.2004	Naples and Bari
KTHC	38.2004	Kiflemariam HAMDE (lxviii): Mind in Africa, Body in Europe: The Struggle for Maintaining and Transforming
		Cultural Identity - A Note from the Experience of Eritrean Immigrants in Stockholm
ETA	39.2004	Alberto CAVALIERE: Price Competition with Information Disparities in a Vertically Differentiated Duopoly Andrea BIGANO and Stef PROOST: The Opening of the European Electricity Market and Environmental
PRA	40.2004	Policy: Does the Degree of Competition Matter?
CCMP	41.2004	Micheal FINUS (lxix): International Cooperation to Resolve International Pollution Problems
KTHC	42.2004	Francesco CRESPI: Notes on the Determinants of Innovation: A Multi-Perspective Analysis
CTN	43.2004	Sergio CURRARINI and Marco MARINI: Coalition Formation in Games without Synergies
CTN	44.2004	Marc ESCRIHUELA-VILLAR: Cartel Sustainability and Cartel Stability
NRM	45.2004	Sebastian BERVOETS and Nicolas GRAVEL (lxvi): <u>Appraising Diversity with an Ordinal Notion of Similarity</u> : An Axiomatic Approach
NRM	46.2004	Signe ANTHON and Bo JELLESMARK THORSEN (lxvi): Optimal Afforestation Contracts with Asymmetric
	47.2004	Information on Private Environmental Benefits John MBURU (lxvi): Wildlife Conservation and Management in Kenya: Towards a Co-management Approach
NRM		Ekin BIROL, Ágnes GYOVAI and Melinda SMALE (Ixvi): Using a Choice Experiment to Value Agricultural
NRM	48.2004	Biodiversity on Hungarian Small Farms: Agri-Environmental Policies in a Transition al Economy
CCMP	49.2004	Gernot KLEPPER and Sonja PETERSON: The EU Emissions Trading Scheme. Allowance Prices, Trade Flows, Competitiveness Effects
GG	50.2004	Scott BARRETT and Michael HOEL: Optimal Disease Eradication
CTN	51.2004	Dinko DIMITROV, Peter BORM, Ruud HENDRICKX and Shao CHIN SUNG: <u>Simple Priorities and Core</u> Stability in Hedonic Games
CIEV.	52 2004	Francesco RICCI: Channels of Transmission of Environmental Policy to Economic Growth: A Survey of the
SIEV	52.2004	Theory
SIEV	53.2004	Anna ALBERINI, Maureen CROPPER, Alan KRUPNICK and Nathalie B. SIMON: Willingness to Pay for Mortality Risk Reductions: Does Latency Matter?
NRM	54.2004	<i>Ingo BRÄUER and Rainer MARGGRAF</i> (lxvi): <u>Valuation of Ecosystem Services Provided by Biodiversity</u> <u>Conservation: An Integrated Hydrological and Economic Model to Value the Enhanced Nitrogen Retention in</u> Renaturated Streams
NRM	55.2004	Timo GOESCHL and Tun LIN (lxvi): Biodiversity Conservation on Private Lands: Information Problems and
		Regulatory Choices
NRM	56.2004	Tom DEDEURWAERDERE (lxvi): Bioprospection: From the Economics of Contracts to Reflexive Governance
CCMP	57.2004	Katrin REHDANZ and David MADDISON: The Amenity Value of Climate to German Households
CCMP	58.2004	Koen SMEKENS and Bob VAN DER ZWAAN: Environmental Externalities of Geological Carbon Sequestration Effects on Energy Scenarios
NRM	59.2004	Valentina BOSETTI, Mariaester CASSINELLI and Alessandro LANZA (lxvii): Using Data Envelopment Analysis to Evaluate Environmentally Conscious Tourism Management
NRM	60.2004	Timo GOESCHL and Danilo CAMARGO IGLIORI (lxvi): Property Rights Conservation and Development: An
		Analysis of Extractive Reserves in the Brazilian Amazon Barbara BUCHNER and Carlo CARRARO: Economic and Environmental Effectiveness of a
CCMP	61.2004	Technology-based Climate Protocol
NRM	62.2004	Elissaios PAPYRAKIS and Reyer GERLAGH: Resource-Abundance and Economic Growth in the U.S.
NRM	63.2004	<i>Györgyi BELA, György PATAKI, Melinda SMALE and Mariann HAJDÚ</i> (lxvi): <u>Conserving Crop Genetic</u> Resources on Smallholder Farms in Hungary: Institutional Analysis
NDM	CA 2004	E.C.M. RUIJGROK and E.E.M. NILLESEN (lxvi): The Socio-Economic Value of Natural Riverbanks in the
NRM	64.2004	Netherlands
NRM	65.2004	<i>E.C.M. RUIJGROK</i> (lxvi): <u>Reducing Acidification: The Benefits of Increased Nature Quality. Investigating the</u> Possibilities of the Contingent Valuation Method
ETA	66.2004	Giannis VARDAS and Anastasios XEPAPADEAS: Uncertainty Aversion, Robust Control and Asset Holdings
GG	67.2004	Anastasios XEPAPADEAS and Constadina PASSA: Participation in and Compliance with Public Voluntary
GG	68.2004	Environmental Programs: An Evolutionary Approach Michael FINUS: Modesty Pays: Sometimes!
		Trond BJØRNDAL and Ana BRASÃO: The Northern Atlantic Bluefin Tuna Fisheries: Management and Policy
NRM	69.2004	Implications
CTN	70.2004	Alejandro CAPARRÓS, Abdelhakim HAMMOUDI and Tarik TAZDAÏT: On Coalition Formation with Heterogeneous Agents
IEM	71.2004	Massimo GIOVANNINI, Margherita GRASSO, Alessandro LANZA and Matteo MANERA: Conditional Correlations in the Returns on Oil Companies Stock Prices and Their Determinants
IEM	72.2004	Alessandro LANZA, Matteo MANERA and Michael MCALEER: Modelling Dynamic Conditional Correlations
		in WTI Oil Forward and Futures Returns Margarita GENIUS and Elisabetta STRAZZERA: The Copula Approach to Sample Selection Modelling:
SIEV	73.2004	An Application to the Recreational Value of Forests

CCMP	74.2004	Rob DELLINK and Ekko van IERLAND: Pollution Abatement in the Netherlands: A Dynamic Applied General
ETA	75.2004	Equilibrium Assessment Rosella LEVAGGI and Michele MORETTO: Investment in Hospital Care Technology under Different
CTN	76.2004	Purchasing Rules: A Real Option Approach Salvador BARBERÀ and Matthew O. JACKSON (lxx): On the Weights of Nations: Assigning Voting Weights in
		<u>a Heterogeneous Union</u> Àlex ARENAS, Antonio CABRALES, Albert DÍAZ-GUILERA, Roger GUIMERÀ and Fernando VEGA-
CTN	77.2004	REDONDO (lxx): Optimal Information Transmission in Organizations: Search and Congestion
CTN	78.2004	Francis BLOCH and Armando GOMES (lxx): <u>Contracting with Externalities and Outside Options</u> Rabah AMIR, Effrosyni DIAMANTOUDI and Licun XUE (lxx): <u>Merger Performance under Uncertain Efficiency</u>
CTN	79.2004	Gains
CTN CTN	80.2004 81.2004	Francis BLOCH and Matthew O. JACKSON (lxx): The Formation of Networks with Transfers among Players Daniel DIERMEIER, Hülya ERASLAN and Antonio MERLO (lxx): Bicameralism and Government Formation
CTN	82.2004	Rod GARRATT, James E. PARCO, Cheng-ZHONG QIN and Amnon RAPOPORT (lxx): Potential Maximization
CTN	83.2004	and Coalition Government Formation Kfir ELIAZ, Debraj RAY and Ronny RAZIN (lxx): Group Decision-Making in the Shadow of Disagreement
CTN	84.2004	Sanjeev GOYAL, Marco van der LEIJ and José Luis MORAGA-GONZÁLEZ (lxx): <u>Economics: An Emerging</u>
		Small World? Edward CAPTWRICUT (hup): Learning to Play Approximate Nach Equilibria in Comes with Many Players
CTN	85.2004	<i>Edward CARTWRIGHT</i> (lxx): <u>Learning to Play Approximate Nash Equilibria in Games with Many Players</u> <i>Finn R. FØRSUND and Michael HOEL</i> : Properties of a Non-Competitive Electricity Market Dominated by
IEM	86.2004	Hydroelectric Power
KTHC	87.2004	Elissaios PAPYRAKIS and Reyer GERLAGH: Natural Resources, Investment and Long-Term Income
CCMP	88.2004	<i>Marzio GALEOTTI and Claudia KEMFERT</i> : <u>Interactions between Climate and Trade Policies: A Survey</u> <i>A. MARKANDYA, S. PEDROSO and D. STREIMIKIENE</i> : <u>Energy Efficiency in Transition Economies</u> : Is There
IEM	89.2004	Convergence Towards the EU Average?
GG	90.2004	Rolf GOLOMBEK and Michael HOEL : Climate Agreements and Technology Policy
PRA	91.2004	Sergei IZMALKOV (lxv): <u>Multi-Unit Open Ascending Price Efficient Auction</u>
KTHC	92.2004	Gianmarco I.P. OTTAVIANO and Giovanni PERI: <u>Cities and Cultures</u>
KTHC	93.2004	Massimo DEL GATTO: Agglomeration, Integration, and Territorial Authority Scale in a System of Trading Cities. Centralisation versus devolution
CCMP	94.2004	Pierre-André JOUVET, Philippe MICHEL and Gilles ROTILLON: Equilibrium with a Market of Permits
CCMP	95.2004	Bob van der ZWAAN and Reyer GERLAGH: Climate Uncertainty and the Necessity to Transform Global Energy Supply
CCMP	96.2004	<i>Francesco BOSELLO, Marco LAZZARIN, Roberto ROSON and Richard S.J. TOL</i> : <u>Economy-Wide Estimates of</u> <u>the Implications of Climate Change: Sea Level Rise</u>
CTN	97.2004	Gustavo BERGANTIÑOS and Juan J. VIDAL-PUGA: Defining Rules in Cost Spanning Tree Problems Through the Canonical Form
CTN	98.2004	Siddhartha BANDYOPADHYAY and Mandar OAK: <u>Party Formation and Coalitional Bargaining in a Model of</u> <u>Proportional Representation</u>
GG	99.2004	Hans-Peter WEIKARD, Michael FINUS and Juan-Carlos ALTAMIRANO-CABRERA: <u>The Impact of Surplus</u> Sharing on the Stability of International Climate Agreements
SIEV	100.2004	Chiara M. TRAVISI and Peter NIJKAMP: Willingness to Pay for Agricultural Environmental Safety: Evidence from a Survey of Milan, Italy, Residents
SIEV	101.2004	Chiara M. TRAVISI, Raymond J. G. M. FLORAX and Peter NIJKAMP: A Meta-Analysis of the Willingness to
NRM	102.2004	Pay for Reductions in Pesticide Risk Exposure Valentina BOSETTI and David TOMBERLIN: Real Options Analysis of Fishing Fleet Dynamics: A Test
CCMP	103.2004	Alessandra GORIA e Gretel GAMBARELLI: Economic Evaluation of Climate Change Impacts and Adaptability in Italy
PRA	104.2004	Massimo FLORIO and Mara GRASSENI: The Missing Shock: The Macroeconomic Impact of British
PRA	105.2004	<u>Privatisation</u> John BENNETT, Saul ESTRIN, James MAW and Giovanni URGA: <u>Privatisation Methods and Economic Growth</u>
PRA	106.2004	in Transition Economies Kira BÖRNER: The Political Economy of Privatization: Why Do Governments Want Reforms?
PRA	100.2004	Pehr-Johan NORBÄCK and Lars PERSSON: Privatization and Restructuring in Concentrated Markets
SIEV	108.2004	Angela GRANZOTTO, Fabio PRANOVI, Simone LIBRALATO, Patrizia TORRICELLI and Danilo MAINARDI: Comparison between Artisanal Fishery and Manila Clam Harvesting in the Venice Lagoon by
		Using Ecosystem Indicators: An Ecological Economics Perspective
CTN	109.2004	Somdeb LAHIRI: The Cooperative Theory of Two Sided Matching Problems: A Re-examination of Some
NRM	110.2004	<u>Results</u> Giuseppe DI VITA: Natural Resources Dynamics: Another Look
SIEV	111.2004	Anna ALBERINI, Alistair HUNT and Anil MARKANDYA: Willingness to Pay to Reduce Mortality Risks:
KTHC	112.2004	Evidence from a Three-Country Contingent Valuation Study Valeria PAPPONETTI and Dino PINELLI: Scientific Advice to Public Policy-Making
		Paulo A.L.D. NUNES and Laura ONOFRI: The Economics of Warm Glow: A Note on Consumer's Behavior
SIEV	113.2004	and Public Policy Implications Patrick CAYRADE: Investments in Gas Pipelines and Liquefied Natural Gas Infrastructure What is the Impact
IEM	114.2004	on the Security of Supply?
IEM	115.2004	Valeria COSTANTINI and Francesco GRACCEVA: Oil Security. Short- and Long-Term Policies

IEM	116.2004	Valeria COSTANTINI and Francesco GRACCEVA: Social Costs of Energy Disruptions
		Christian EGENHOFER, Kyriakos GIALOGLOU, Giacomo LUCIANI, Maroeska BOOTS, Martin SCHEEPERS,
IEM	117.2004	Valeria COSTANTINI, Francesco GRACCEVA, Anil MARKANDYA and Giorgio VICINI: Market-Based Options
		for Security of Energy Supply
IEM	118.2004	David FISK: Transport Energy Security. The Unseen Risk?
IEM	119.2004	Giacomo LUCIANI: Security of Supply for Natural Gas Markets. What is it and What is it not?
IEM	120.2004	L.J. de VRIES and R.A. HAKVOORT: The Question of Generation Adequacy in Liberalised Electricity Markets
KTHC	121.2004	Alberto PETRUCCI: Asset Accumulation, Fertility Choice and Nondegenerate Dynamics in a Small Open Economy
NRM	122.2004	Carlo GIUPPONI, Jaroslaw MYSIAK and Anita FASSIO: An Integrated Assessment Framework for Water
	122.2001	Resources Management: A DSS Tool and a Pilot Study Application
NRM	123.2004	Margaretha BREIL, Anita FASSIO, Carlo GIUPPONI and Paolo ROSATO: Evaluation of Urban Improvement
		on the Islands of the Venice Lagoon: A Spatially-Distributed Hedonic-Hierarchical Approach
ETA	124.2004	Paul MENSINK: Instant Efficient Pollution Abatement Under Non-Linear Taxation and Asymmetric Information: The Differential Tax Revisited
		Mauro FABIANO, Gabriella CAMARSA, Rosanna DURSI, Roberta IVALDI, Valentina MARIN and Francesca
NRM	125.2004	PALMISANI: Integrated Environmental Study for Beach Management: A Methodological Approach
		Irena GROSFELD and Iraj HASHI: The Emergence of Large Shareholders in Mass Privatized Firms: Evidence
PRA	126.2004	from Poland and the Czech Republic
CCMP	127.2004	Maria BERRITTELLA, Andrea BIGANO, Roberto ROSON and Richard S.J. TOL: A General Equilibrium
CCMP	127.2004	Analysis of Climate Change Impacts on Tourism
CCMP	128.2004	Reyer GERLAGH: A Climate-Change Policy Induced Shift from Innovations in Energy Production to Energy
		Savings
NRM	129.2004	Elissaios PAPYRAKIS and Reyer GERLAGH: Natural Resources, Innovation, and Growth
PRA	130.2004	Bernardo BORTOLOTTI and Mara FACCIO: <u>Reluctant Privatization</u>
SIEV	131.2004	Riccardo SCARPA and Mara THIENE: Destination Choice Models for Rock Climbing in the Northeast Alps: A
		Latent-Class Approach Based on Intensity of Participation
SIEV	132.2004	<i>Riccardo SCARPA Kenneth G. WILLIS and Melinda ACUTT:</i> <u>Comparing Individual-Specific Benefit Estimates</u> for Public Goods: Finite Versus Continuous Mixing in Logit Models
IEM	133.2004	Santiago J. RUBIO: On Capturing Oil Rents with a National Excise Tax Revisited
ETA	134.2004	Ascensión ANDINA DÍAZ: Political Competition when Media Create Candidates' Charisma
SIEV	135.2004	Anna ALBERINI: Robustness of VSL Values from Contingent Valuation Surveys
		Gernot KLEPPER and Sonja PETERSON: Marginal Abatement Cost Curves in General Equilibrium: The
CCMP	136.2004	Influence of World Energy Prices
ETA	137.2004	Herbert DAWID, Christophe DEISSENBERG and Pavel ŠEVČIK: Cheap Talk, Gullibility, and Welfare in an
		Environmental Taxation Game
CCMP	138.2004	ZhongXiang ZHANG: The World Bank's Prototype Carbon Fund and China
CCMP	139.2004	Reyer GERLAGH and Marjan W. HOFKES: Time Profile of Climate Change Stabilization Policy
NRM	140.2004	Chiara D'ALPAOS and Michele MORETTO: The Value of Flexibility in the Italian Water Service Sector: A
		Real Option Analysis
PRA	141.2004	Patrick BAJARI, Stephanie HOUGHTON and Steven TADELIS (lxxi): Bidding for Incompete Contracts
PRA	142.2004	Susan ATHEY, Jonathan LEVIN and Enrique SEIRA (lxxi): Comparing Open and Sealed Bid Auctions: Theory and Evidence from Timber Auctions
PRA	143.2004	David GOLDREICH (lxxi): Behavioral Biases of Dealers in U.S. Treasury Auctions
PRA	144.2004	Roberto BURGUET (lxxi): Optimal Procurement Auction for a Buyer with Downward Sloping Demand: More
IKA	144.2004	Simple Economics
PRA	145.2004	Ali HORTACSU and Samita SAREEN (lxxi): Order Flow and the Formation of Dealer Bids: An Analysis of
	1.0.2001	Information and Strategic Behavior in the Government of Canada Securities Auctions
PRA	146.2004	Victor GINSBURGH, Patrick LEGROS and Nicolas SAHUGUET (lxxi): How to Win Twice at an Auction. On
		the Incidence of Commissions in Auction Markets Claudio MEZZETTI, Aleksandar PEKEČ and Ilia TSETLIN (lxxi): Sequential vs. Single-Round Uniform-Price
PRA	147.2004	Auctions
PRA	148.2004	John ASKER and Estelle CANTILLON (lxxi): Equilibrium of Scoring Auctions
		Philip A. HAILE, Han HONG and Matthew SHUM (Ixxi): <u>Nonparametric Tests for Common Values in First-</u>
PRA	149.2004	Price Sealed-Bid Auctions
	150 2004	François DEGEORGE, François DERRIEN and Kent L. WOMACK (lxxi): Quid Pro Quo in IPOs: Why
PRA	150.2004	Bookbuilding is Dominating Auctions
CCMP	151.2004	Barbara BUCHNER and Silvia DALL'OLIO: Russia: The Long Road to Ratification. Internal Institution and
CCIVII	131.2004	Pressure Groups in the Kyoto Protocol's Adoption Process
CCMP	152.2004	Carlo CARRARO and Marzio GALEOTTI: Does Endogenous Technical Change Make a Difference in Climate
		Policy Analysis? A Robustness Exercise with the FEEM-RICE Model
PRA	153.2004	Alejandro M. MANELLI and Daniel R. VINCENT (lxxi): <u>Multidimensional Mechanism Design: Revenue</u>
		Maximization and the Multiple-Good Monopoly
ETA	154.2004	Nicola ACOCELLA, Giovanni Di BARTOLOMEO and Wilfried PAUWELS: Is there any Scope for Corporatism in Stabilization Policies?
		in Stabilization Policies? Johan EYCKMANS and Michael FINUS: An Almost Ideal Sharing Scheme for Coalition Games with
CTN	155.2004	Externalities
CCMP	156.2004	Cesare DOSI and Michele MORETTO: Environmental Innovation, War of Attrition and Investment Grants

CCMP	157.2004	Valentina BOSETTI, Marzio GALEOTTI and Alessandro LANZA: How Consistent are Alternative Short-Term
		Climate Policies with Long-Term Goals?
ETA	158.2004	Y. Hossein FARZIN and Ken-Ichi AKAO: Non-pecuniary Value of Employment and Individual Labor Supply
ETA	159.2004	William BROCK and Anastasios XEPAPADEAS: Spatial Analysis: Development of Descriptive and Normative
EIA		<u>Methods with Applications to Economic-Ecological Modelling</u>
KTHC	160.2004	Alberto PETRUCCI: On the Incidence of a Tax on PureRent with Infinite Horizons
IEM	161.2004	Xavier LABANDEIRA, José M. LABEAGA and Miguel RODRÍGUEZ: Microsimulating the Effects of Household
		Energy Price Changes in Spain

NOTE DI LAVORO PUBLISHED IN 2005

CCMP	1.2005	Stéphane HALLEGATTE: Accounting for Extreme Events in the Economic Assessment of Climate Change
CCMP	2.2005	<i>Qiang WU and Paulo Augusto NUNES</i> : <u>Application of Technological Control Measures on Vehicle Pollution: A</u> Cost-Benefit Analysis in China
CCMP	3.2005	Andrea BIGANO, Jacqueline M. HAMILTON, Maren LAU, Richard S.J. TOL and Yuan ZHOU: <u>A Global</u> Database of Domestic and International Tourist Numbers at National and Subnational Level
CCMP	4.2005	Andrea BIGANO, Jacqueline M. HAMILTON and Richard S.J. TOL: <u>The Impact of Climate on Holiday</u> Destination Choice
ETA	5.2005	Hubert KEMPF: Is Inequality Harmful for the Environment in a Growing Economy?
CCMP	6.2005	<i>Valentina BOSETTI, Carlo CARRARO and Marzio GALEOTTI</i> : <u>The Dynamics of Carbon and Energy Intensity</u> in a Model of Endogenous Technical Change
IEM	7.2005	David CALEF and Robert GOBLE: The Allure of Technology: How France and California Promoted Electric Vehicles to Reduce Urban Air Pollution
ETA	8.2005	Lorenzo PELLEGRINI and Reyer GERLAGH: An Empirical Contribution to the Debate on Corruption Democracy and Environmental Policy
CCMP	9.2005	Angelo ANTOCI: Environmental Resources Depletion and Interplay Between Negative and Positive Externalities in a Growth Model
CTN	10.2005	Frédéric DEROIAN: Cost-Reducing Alliances and Local Spillovers
NRM	11.2005	<i>Francesco SINDICO</i> : <u>The GMO Dispute before the WTO: Legal Implications for the Trade and Environment</u> Debate
KTHC	12.2005	<i>Carla MASSIDDA</i> : Estimating the New Keynesian Phillips Curve for Italian Manufacturing Sectors
KTHC	13.2005	Michele MORETTO and Gianpaolo ROSSINI: Start-up Entry Strategies: Employer vs. Nonemployer firms
PRCG	14.2005	Clara GRAZIANO and Annalisa LUPORINI: Ownership Concentration, Monitoring and Optimal Board Structure
CSRM	15.2005	Parashar KULKARNI: Use of Ecolabels in Promoting Exports from Developing Countries to Developed
KTHC	16.2005	Countries: Lessons from the Indian LeatherFootwear Industry Adriana DI LIBERTO, Roberto MURA and Francesco PIGLIARU: How to Measure the Unobservable: A Panel
KIIIC	10.2005	Technique for the Analysis of TFP Convergence
KTHC	17.2005	Alireza NAGHAVI: Asymmetric Labor Markets, Southern Wages, and the Location of Firms
KTHC	18.2005	Alireza NAGHAVI: Strategic Intellectual Property Rights Policy and North-South Technology Transfer
KTHC	19.2005	Mombert HOPPE: Technology Transfer Through Trade
PRCG	20.2005	Roberto ROSON: Platform Competition with Endogenous Multihoming
CCMP	21.2005	Barbara BUCHNER and Carlo CARRARO: <u>Regional and Sub-Global Climate Blocs</u> . A Game Theoretic Perspective on Bottom-up Climate Regimes
IEM	22.2005	<i>Fausto CAVALLARO</i> : <u>An Integrated Multi-Criteria System to Assess Sustainable Energy Options: An</u> Application of the Promethee Method
CTN	23.2005	Michael FINUS, Pierre v. MOUCHE and Bianca RUNDSHAGEN: Uniqueness of Coalitional Equilibria
IEM	24.2005	Wietze LISE: Decomposition of CO2 Emissions over 1980–2003 in Turkey
CTN	25.2005	Somdeb LAHIRI: The Core of Directed Network Problems with Quotas
SIEV	26.2005	Susanne MENZEL and Riccardo SCARPA: Protection Motivation Theory and Contingent Valuation: Perceived Realism, Threat and WTP Estimates for Biodiversity Protection
NRM	27.2005	Massimiliano MAZZANȚI and Anna MONTINI: <u>The Determinants of Residential Water Demand Empirical</u> Evidence for a Panel of Italian Municipalities
CCMP	28.2005	Laurent GILOTTE and Michel de LARA: Precautionary Effect and Variations of the Value of Information
NRM	29.2005	Paul SARFO-MENSAH: Exportation of Timber in Ghana: The Menace of Illegal Logging Operations
CCMP	30.2005	Andrea BIGANO, Alessandra GORIA, Jacqueline HAMILTON and Richard S.J. TOL: <u>The Effect of Climate</u> Change and Extreme Weather Events on Tourism
NRM	31.2005	Maria Angeles GARCIA-VALIÑAS: Decentralization and Environment: An Application to Water Policies
NRM	32.2005	Chiara D'ALPAOS, Cesare DOSI and Michele MORETTO: Concession Length and Investment Timing Flexibility
CCMP	33.2005	Joseph HUBER: Key Environmental Innovations
CTN	34.2005	Antoni CALVÓ-ARMENGOL and Rahmi İLKILIÇ (lxxii): Pairwise-Stability and Nash Equilibria in Network Formation
CTN	35.2005	Francesco FERI (lxxii): Network Formation with Endogenous Decay
CTN	36.2005	Frank H. PAGE, Jr. and Myrna H. WOODERS (lxxii): <u>Strategic Basins of Attraction, the Farsighted Core, and</u> Network Formation Games

CTN 38.2005 Matthew O., JACKSON and Alison WATTS (bxi): Social Games: Matching and the Play of Entitley Repeated Games CTN 39.2005 Anna BOGOMOLMAL Alchel LE BRETON, Alevel SAWATEEV and Shlomo WEBER (bxi): The Egalitarian Sharing Red in Provision of Public Projects CTN 40.2005 Francesco FERI, Stochastic Stability in Network with Deasy CTN 40.2005 Arrit de ZEUW (ksi): Dynamic Effects on the Stability of International Environmental Agreements C. Marting van der HEIDF, Jerene C.J.M. van den BRR0H, F&ko C. van FREAN and value A.L.D. NUNNEX NRM 42.2005 Messating the Economic Value of Two Hebita Deframentation Folley Scenarios for the Veluve. The Netherlands PRCG 43.2005 Carlor VIERIA and Ana Paula SERRAI: Abnormal Returns in Privatization Public Offerings: The Case of Partiaguese Firms STEV 44.2005 Mathem FINIS and Bhance RUNDSIAGEN: Participation in International Environmental Agreements. The Male af FINIS and Bhance RUNDSIAGEN: Participation in International Environmental Agreements. The Mathem FINIS and Bhance RUNDSIAGEN: Participation in International Environmental Agreements. CTN 45.2005 Mathem FIRERUM and Rayer GERLAGH? And Paulo SOEI (bas): A Characterization of Stuchatically Stable Mathem Finistical Comparison of Stuckatical VANNETELBOSCH (bas): A Characterization of Stuckatical VStable CTN 45.2005 Mathem FIRERUM and Water Demands with SEM and VAR: An Empirical Comparison Mathem Vient Vient Vient Vient V	CTN	37.2005	Alessandra CASELLA and Nobuyuki HANAKI (lxxii): Information Channels in Labor Markets. On the Resilience of Referral Hiring
CTN 39.200 Jama DOGOMCLNALA, Michel LE BRETON, Alexes SAPTATERV and Shlomo WEBER (txsii): The Egalitarian Sharing Rule in Provision of Public Projects CTN 40.2005 Francesco FER: Stochastic Stability in Network with Decay CTN 40.2005 Francesco FER: Stochastic Stability in Network with Decay Network Messuing the Economic Value of Two Headbalt Defragmentation Policy. Scattroits for the Values, The Network Networ	CTN	38.2005	Matthew O. JACKSON and Alison WATTS (lxxii): Social Games: Matching and the Play of Finitely Repeated
CTN 40.000 CTN 41.200 Jatima Kalic m Provides Charlos Charas Charlos Charlos Chardis Charlos Charlos Charlos Cha	CTN	20 2005	
412005 And the ZEUUW (Knith: Dynamic Effects on the Stubility of International Environmental Arcemenents C. Marting was der HERD, Jeronen CJ.M. was den RERRAT, IKAN D. and Paulos AL-D. NUNES: NRM 422005 Measuring, the Leconomic Value of Two. Habitat Defragmentation. Policy. Scenarios for the Veluxe, The Netherlands PRCG 432005 Corlor VIEIRA and Ana Paulo SERAA: Abnormal. Returns in Drivatization. Public Offerings: The Case of Partraguese Firms SIEV 442005 Anna ALBERNI, Valentinu ZANATTA and Paulo ROSATO: Combining Actual and Contingent Behavior to Estimate the Value of Sport Fishing in the Lagoon Of Vanice Rule of Timing and Regulation Control Timing and Regulation CCMP 462005 Lorenzo PELLEGRINI and Rayer GERLAGH: Are EU Environmental Policies Too Demanding for New Members Natios? IEM 47.005 Mattee MANERT, Nodeling Factor Demands with SEM and VAR: An Empirical Comparison Oliveer TRECIEUX and Vincent VANNETELBOSCH (UNX: Characterization of Suchastically Sable Members Natios? Crin 49.2005 Anna MADLEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (UNX): RAD Networks Annang Immunoration and Americanents Crin 50.2005 Contro CHAMING, Johan BYCKMANS and Michael FINUS: Optimal Transfers and Panicipation Decisions in Immunoration and Americanents Crin 51.2005 Anneg Immunorational Americanents Appicational Americanal Americanents S1205 Contro CHAMING, Johan BYCKMANS and Michael FINUS: Optimal Transfers and			
 C. Martijn van der HEIDE, Jerone C.J.M. van den BERGH, Ekko C. van TERLAND auf Junio A.L.D. NUMES: Metherlands M. Stherlands Corlo VIERA auf Aua Paule SERA: <u>Abnormal Returns in Privatization Public Offerines: The Cale of Partuguese Firms</u> M. All DERAND, Valentina ZMATTA auf Paulo ROSATO: <u>Combining Actual and Contingent Behavior to Estimate the Value of Sports Fishing in the Layoon of Venice</u> M. Mand JERRIN, Valorina ZMATTA and Paulo ROSATO: <u>Combining Actual and Contingent Behavior to Estimate the Value of Sports Fishing in the Layoon of Venice</u> M. Mcheel FINUS and Biance RUNDBHAGEN: Participation in International Environmental Agreements: The Role of Timing and Revolution (New York) CRLAGH: <u>Are EU Environmental Public's Too Demanding for New Members States?</u> M. Moro MINERE: Modeling Factor Demands with SEM and VAR: An Empirical Comparison Olivier TERCIFICUX and Vincent VANNETELBOSCH (Ussa): <u>A Cumractorization of Stochastically Stable Networks</u> Anno MULEON, José SEMPERE-MONERRIS and Vincent J VANNETELBOSCH (Ussai): <u>R&D Networks</u> Anno MULEON, José SEMPERE-MONERRIS and Vincent J VANNETELBOSCH (Ussai): <u>R&D Networks</u> Anno MULEON, José SEMPERE-MONERRIS and Pincent J. VANNETELBOSCH (Ussai): <u>R&D Networks</u> Anno MULEON, John FUCKMANN and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements. S2005 <u>Allow GATTAN ACHARINAN and Michael FINUS: Optimal Transfers and Participation Decisions in International Barcelinate Agreements and Trade Oblizations: Theoretical Analysis of the Daha Porposal Amorganic Activities based in the City of Valuets on On Site Material Margaretine BREIL, Greet GAMBARELLI and Paulo ALD, NUNES: Economic Valuation of On Site Material Margaretine BREIL (Control Activities Instead in International Structures)</u> S2005 Gerron KLEPPER and Song PETERSON: Emissionan Training, CDM II, and Mo			
Netherlands Netherlands PRCG Carlot (PIERA and Ana Paula SERA4: Abnormal Returns in Privatization Public Offerings: The Case of Particusces Firms Anno ALBERNI, Valorina ZAVATTA and Paolo ROSATO: Combining Actual and Contingent Behavior to Estimate the Value of Sports Fishing in the Layoon of Venice Michoal FINIS and Bianco RUNDSHAGEN: Participation in International Environmental Agreements: The Biole of Timine and Regulation Lorenzo PELLEGRINI and Regier GERLAGH: Are EU Environmental Policies Too Demanding for New MembersShates? IEM 47.2005 Matton AMNREH: Modeling Flactor Demands with SEM and VAR: An Empirical Comparison Otivier TERCIEUX and Vincent VINNETELBOSCH (bxs): A Characterization of Stochastically Stable Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Christo Vincent ANDER VINCENDE ANDER Networks Anno MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (bxsi): RAD Networks Christo Vincent ANDER VINCENDE ANDER Networks Chris Stabas Annostrabas	CIII	41.2005	
 PRCG 43.005 Portuguese Firms Anna AJRERNI, Vienetina ZANATTA and Paolo ROSATO: Combining Actual and Confingent Behavior to Estimate the Value of Sports Eshing in the Layoon of Venice Mchael FIVUS and Branca RUNDSHIGGEN: Participation in International Environmental Agreements: The Bole of Timing and Regulation Lorento PELLEGENIN and Rever GERLAGH: Are EU Environmental Policies Too Demanding for New Members States? Menton PELLEGENIN and Rever GERLAGH: Are EU Environmental Policies Too Demanding for New Members States? Mattee MARRA+ Muching Factor Demands with SEM and VAR: An Empirical Comparison Olivier TERCIFUX and Vincent VANNETELBOSCH (1xx): A Characterization of Stochastically Stable Networks Mattee MARRA+ Muching Factor Demands with SEM and VAR: An Empirical Comparison Olivier TERCIFUX and Vincent VANNETELBOSCH (1xx): A Characterization of Stochastically Stable Networks Anna MALLEON , José SEMPERE-MONERRIS and Vincent J VANNETELBOSCH (1xxii): <u>B&D Networks</u> Among Unionized Etrums Carlo CARRARO, Johan EYCKMANN and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements Steven SACHAPY BMURIDAN, José SEMPERE-MONERRIS and France ALD Deligitions: A Theoretical Analysis of the Dohan Proposal Matterial Experiments and Trade Obligations: A Theoretical Analysis of the Dohan Proposal Matterial BELL Gravel GAMBARELLI and Paulo ALD. NUNES: Economic Valuation of On Site Material Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response: Expert Based Valuation Approach. Team KALLEPPER and Sonja PETERSON: Emissions Trading, CDM JL and More – The Climate Strategy of the ED Matter & Comparison on Structures vs. Lagmerent in a Paul of Italian Firms Stocos Euro KLEPPER and Sonja PETERSON: Emissions Trading, CDM DL and More – The Climate Strategy	NRM	42.2005	Netherlands
SIEV 44.2005 <i>Anna LIBERNIN</i> , Valentina ZANATTA and Paolo ROSATO: Combining Actual and Contingent Behavior to Estimate the Value of Sorts Fishing in the Lacoon of Venice CTN 45.2005 <i>Michael FNUS and Bianca RUNDSHIGEN:</i> Participation in International Environmental Acreements: The Role of Timing and Resultation CCMP 46.2005 <i>Matten MAREA: Mudaling Encur Dermanks with SEM and VAR:</i> An Empirical Comparison Other TRICIEUX and Vincent VANNETELBOSCH (1xx): A Characterization of Stochastically Stable Networks CTN 48.2005 <i>Matten MAREA: Mudaling Encur Dermanks with SEM and VAR:</i> An Empirical Comparison Other TRICIEUX and Vincent VANNETELBOSCH (1xx): A Characterization of Stochastically Stable Networks CTN 49.2005 <i>Anna MAILEON, Joba SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH</i> (1xx): <u>B&D Networks Anna MalleDON, Joba SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH</u> (1xx): <u>B&D Networks Anna MalleDON, Joba SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH</u> (1xx): <u>B&D Networks Anna MalleDON, Joba SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH</u> (1xx): <u>B&D Networks Anna MalleDON, Joba SEMPERE-MONERRIS and Vincent SATURES</u> (1xx): <u>A Comparison AIGHAF</u> (1x): <u>Multileal Environmental Agreements and Traile Obligations: A Theoretical Analysis of International Environmental Agreements (1xx): <u>A AGIAF</u> (1x): <u>Multileal Environmental Agreements and Traile Obligations: A Theoretical Analysis of the Daha Penpaal. KTHC 51.2005 <i>Michael DOCI, Marcio GALEOTTI, Charles P. HIMMELBERG and Paola ROTA</i>: <u>Investment and Time to Plant. A Comparison Of Structures SX. Equipment in a Date of Halian Firms Geront KLEPPER and Songe PETERSON: <u>Emisin</u></u></u></u>	PRCG	43.2005	· · · · · · · · · · · · · · · · · · ·
Role of Timing and Regulation CCMP 46.2005 Members States? Members States? Members States? Maint of MARRA: Modeling Factor Demands with SEM and VAR: An Empirical Comparison Olivier TERCHEUX and Vincent VANNETELBOSCH (txx): A Characterization of Stochastically Stable Networks Annot MALLEAN, Joré SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (txx): ReD Networks Annot MALLEON, Joré SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (txx): ReD Networks Annot MALLEON, Joré SEMPERE-MONERRIS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements CTN 50.2005 Carlot CARRARO, Johan ETCKMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements KTHC 51.2005 Maint and CARRARO, Johan ETCKMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements SEEV 52.2005 Maint and Transfers and Participation Environmental Agreements and Trade Obligations: A Theoretical Analysis of Ike Duba Proposal BETA 54.2005 Maint and Represental Environmental Agreements and Trade Obligations: A Theoretical Analysis of Ike Duba Proposal ETA 54.2005 Maint DATIO and Bernard SINCLAR-DECAGONE: Environmental Reputatin and Time Dani: A Comparison of Structures vs. Faujme	SIEV	44.2005	Anna ALBERINI, Valentina ZANATTA and Paolo ROSATO: Combining Actual and Contingent Behavior to Estimate the Value of Sports Fishing in the Lagoon of Venice
 Menthers States? Menthers States? Menthers States? Marker M. Modeling Factor Demands with SEM and VAR: An Empirical Comparison Othvier TERCIEUX and Vincent VANNETELBOSCH (txx): A Characterization of Stochastically Stable Networks Annon MULLEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (txxi): R&D Networks Amone Unionized Tims Corrol CARRARO, Ohan FYCKMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements Crinto CARRARO, Ohan FYCKMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements Valeria GATTAE: From the Theory of the Erm to EDI and Internalisation: A Survey Allieva MGILHY: Multilutent Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal SIEV 2005 Damageo High Yungton Economic Activities based in the City of Venice: Results from a Dose-Response: Expert. Based Valuation Approach ETA 542005 Damageo High Yungton Economic Activities based in the City of Venice: Results from a Dose-Response: Expert. Based Valuation Approach ETA 542005 Maine A Comparison of Structures vs. Equipment in a Panel of Italian Firms Geriot KLEPPER and Sonja PETERSON: Emissions Trading, CDM, J. and Morg – The Climate Strategy of the EU With DAVID and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Eco-Industry Main DAVID and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Eco-Industry Homit KARL, Anjie MOLLER, Xineena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Stustanable Development Dimitra VOUVARI and Amstatos NEPAPADEAS USAISME Enviopands to the Assessment of Natural Parks' Economic Efficiency	CTN	45.2005	
 HARDEN MARRA: Modeling Factor Demands with SEM and VAR: An Empirical Comparison Olivier TERCIEUX and Vincent VANNETELBOSCH (txx): A Characterization of Stochastically Stable Networks Ana MULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (txxi): <u>R&D Networks</u> Ana MULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (txxi): <u>R&D Networks</u> Annog Unionized Firms Carlo CARRA RO, Johan ETCKMANS and Michael FINUS: <u>Optimal Transfers and Participation Decisions in International Environmental Agreements</u> Valeria GATTAH: From the Theory of the Firm to FDI and Internalisation: A Survey Alizera MGRAFI: Mulliabera Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal Margaretha BREII, Gretel GAMBARELLI and Paulo A.L.D. NUNES: Economic Valuation of On Site Material Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response-Expert Based Valuation Approach Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response-Expert Based Valuation Approach Damages of High Water on Economic Altrivities based in the City of Venice: Results from a Dose-Response-Expert Based Valuation Approach De Dimit A Comparison of Structures S. Equipment in a Panel of Italian Firms Gernot KLEPPER and Sonja PETERSON: Emissions Trading, CDM, JL and More – The Climate Strategy of the Ell Hatta Science NARCHAR, Angle MOLLER, Xinena AMTUS, Edgar GRANDE and Robert KAISER: Environmental Impoctations: Institutional Impacts on Co-operations for Sustainable Development Helmut KARL, Angle MOLLER, Xinena AMTUS, Edgar GRANDE and Robert KAISER: Environmental Impoctations, Institutional Impacts on Co-operations for Sustainable Development Helmut KARL, Angle MOLLER, Xinena MATUS, Edgar GRANDE and Robert KAISER: En	CCMP	46.2005	•
 Networks Networks Ana MAILEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (lxxii): R&D Networks Amone Unionized Firms Carlo CARARO, Johan FYCKMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements KTHC \$1,2005 Valeria GATTAI: From the Theory of the Firm to FD1 and Internalisation: A Survey Alternational Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal Margaretha BRFII, Greel GAMBARELL1 and Paulo A.L.D. NUNES: Economic Valuation of On Site Material Margaretha BRFII, Greel GAMBARELL1 and Paulo A.L.D. NUNES: Economic Valuation of On Site Material SIEV \$3.2005 Damaess of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response: Expert-Based Valuation Approach ETA \$4,2005 Alternad Mosong PETERSON: Emissions Trading, CDNU, II, and More – The Climate Strategy of the EU ETA \$6,2005 Main DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Alain-Désiré MIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry Helmut KARL, Antje MOLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swith Susta Frene YALSECCHF: A Role for Instructions Valentina BOSETTI and Gionni LOCATELL: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Inlain National Parks Sustain Destrit and Gionni LOCATELL: A Data Envelopmen	IEM	47.2005	
CTN 49,205 Ana MAULRON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (1xxi): <u>R&D Networks</u> Among Unionized Firms CTN 50,2005 Carlo CARRARO, Johan EYCKMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements KTHC 51,2005 Valeta GATTAI: From the Theory of the Firm to EDI and Internalisation: A Survey Allrea NAGULAVI: Multilateral Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal SIEV 53,2005 Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response- Expert-Based Valuation Approach ETA 54,2005 Internation of Structures vs. Equipment in a Panel of Hallan Firms CCMP 55,2005 EU ETA 56,2005 Main D AITO and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Eco-Industry Allain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Eco-Industry Allain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Presence of an Eco-Industry NRM 58,2005 Helmut KARI, Anije MOLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations For Sustainable Development Innovations: Institutional Impacts on Co-operations for Sustainable Development Innovations: Institutional Impacts on Co-operations for Sustainable Development Innovations: Instituting Impacts on Co-operations for Sustainable Development In	CTN	48.2005	
CTN 50.2005 Carlo CARRARO, Johan FVCXMANS and Michael FINUS: Optimal Transfers and Participation Decisions in International Environmental Agreements KTHC 51.2005 Valeria GATTAL: From the Theory of the Firm to FD1 and Internalisation: A Survey Alivesa MaGH4/F. Hultilateral Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal Margaretha BREIL, Gretel GAMBARELLI and Paulo A1.D. NUNES: Economic Valuation of On Site Material Margaretha BREIL, Gretel GAMBARELII and Paulo A1.D. NUNES: Economic Valuation of On Site Material Margaretha BREIL, Gretel GAMBARELII, Christe P. HIMMELBERG and Paola ROTA: Investment and Time to Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.2005 Gernot KLEPPER and Sonja PETERSON: Emissions Trading, CDM, JL, and More – The Climate Strategy of the EU ETA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Miain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry ETA 57.2005 Helmut KAIL, Anje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Information: Institutional Impacts on Co-operations for Sustainable Development Dimitra VOUVAKI and Anastasios XEPAPADEAS (taxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 62.2005 Andreas LOGCHEL and Dirk T.G. RÜBREIKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data <t< td=""><td>CTN</td><td>49.2005</td><td>Ana MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (lxxii): <u>R&D Networks</u></td></t<>	CTN	49.2005	Ana MAULEON, José SEMPERE-MONERRIS and Vincent J. VANNETELBOSCH (lxxii): <u>R&D Networks</u>
CIN 50.2005 International Environmental Agreements KTHC 51.2005 Valeria GATTAI: From the Theory of the Firm to FD1 and Internalisation: A Survey Mareza NAGHAPT: Multilateral Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal Mareza NAGHAPT: Multilateral Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal SIEV 53.2005 Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response-Expert-Based Valuation Approach ETA 54.2005 Alessandra del BOCA, Marzio GALEOTTI, Charles P. HIMMELBERG and Paola ROTA: Investment and Time to Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.2005 Genot KLEPPER and Sonja PETERSON: Emissions Trading, CDM JL, and More – The Climate Strategy of the EU ETA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGNE: Environmental Regulation and the Eco-Industry Alain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNE: The Pigouvian Tax Rule in the Presence of an Eco-Industry REA 57.2005 Berlemut KARI, Anje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development SIEV 59.2005 Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP		50 2005	
CCMP 52.2005 Alireau A/GHA ^T . Multilateral Environmental Agreements and Trade Obligations: A Theoretical Analysis of the Doha Proposal SIEV 53.2005 Damages of High Water on Economic Activities based in the City of Venice; Results from a Dose-Response- Expert-Based Valuation Approach ETA 54.2005 Alessandra del BOCA, Marzio GALEOTT, Charles P. HIMMELBERG and Paola ROTA: Investment and Time to Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.2005 Gernot KLEPPER and Sonja PETERSON: Emissions Trading, CDM, JL, and More – The Climate Strategy of the EU ETA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Alian-Détric NUMBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry Falian-Détric NUMARIA and Martin CALR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry NRM 58.2005 Helmut KARL Anije MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development Innovations: Institutional Impacts on CO-operations for Sustainable Development Innovations: Institutional Research Development Analysis Approach to the Assessment of Natural Park's Economic Efficiency and Sustainable Development Analysis Approach to the Assessment of Natural Park's Economic Efficiency and Sustainability. The Case of Italian National Parks SIEV 64.2005 Valentina BOSETTI and Gianni LOCATELL': A Data Envelopment Ana			International Environmental Agreements
CCMP 52.2005 the Doha Proposal Margaretha BREIL, Gretel GAMBARELLI and Paulo A.L.D. NUNES: Economic Valuation of On Site Material Margaretha BREIL, Gretel GAMBARELLI and Paulo A.L.D. NUNES: Economic Valuation of On Site Material SIEV 53.2005 S12005 Diamages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response. Expert-Based Valuation Approach ETA 54.2005 ETA 54.2005 ETA 55.2005 EU COMP ETA 55.2005 BL Main DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Main-Désiré NIMBONA and Bernard SINCLAIR-DESGAGNÉ: The Propovain Tax Rule in the Presence of an Eco-Industry ECO-Industry Helmut KARL, Anje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development SIEV 59.2005 Dimitra YOUYAKI and Anastasios XEPAPADEAS (Xxiii): Citeria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data SIEV 64.2005 Irone VALSECCH: A Role for Instructions Valeetinina BOSETT	KTHC	51.2005	
 SIEV 53.205 Damages of High Water on Economic Activities based in the City of Venice: Results from a Dose-Response- Expert-Based Valuation Approach Alessandra del BOCA, Marzio GALEOTTI, Charles P. HIMMELBERG and Paola ROTA: Investment and Time to Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.2005 Euro FTA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGMÉ: Environmental Regulation and the Eco-Industry Atlain-Desiré NMUBONA and Bernard SINCLAIR-DESGAGMÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry FTA 57.2005 Helmut ARL, Anjie MOLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development Innovations: Institutional Impacts on Co-operations for Sustainable Development Dimitra VOUVARI and Anastasios XEPAPADEAS (Ixxii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 60.2005 Andreas LOSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data ETA 62.2005 Irene VALSECCHI: A Role for Instructions NRM 63.2005 Raintibue Zulastitu and Canne Unstructions SIEV 64.2005 Responses in Attribute Based Valuation Surveys CTN 65.2005 Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Barganing. Coalitions and Fairness KTHC 70.2005 Thomas P. LYON (txxiv): Water Social Capital and Social Trust: Pre-Conditions for Good' Diversity? Astima CHRISTOFOROU (txxiv): On the Determinants of Social Capital and Economic Growth in Italy, 1970-1995 KTHC 70.2005 Thomas P. LYON (txxiv): Wateries of Trust KTHC 70.2005 Elshelt van INICCKAMA VILIEG (txxv): Accommodating Differenc	CCMP	52.2005	the Doha Proposal
ExperimentExperimentETA54.2005to ExperimentDefinitionAdvanceCCMP55.2005Gernot KLEPPER and Sonja PETERSON:Emissions Trading, CDM, JL, and More – The Climate Strategy of theETA56.2005Main DAVID and Bernard SINCLAIR-DESGAGNÉ:Environmental Regulation and the Eco-IndustryAtain-Désiré NMUBONA and Bernard SINCLAIR-DESGAGNÉ:The Pigouvian Tax Rule in the Presence of anECA57.2005Eco-IndustryNRM58.2005Helmut KARL, Anije MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER:EIV59.2005Dimitra VOUVARI and Anastasios XEPAPDEAS (Ixxii): Criteria for Assessing SustainableDevelopment:Theoretical Issues and Empirical Evidence for the Case of GreeceCCMP60.2005Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological InterdependenciesChristoph A. SCHALTEGGER and Benno TORGLER:Trust and Fiscal Performance: A Panel Analysis withSwiss DataSwiss DataETA63.2005Irane T. de BIAEL, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH:MRM63.2005Irane T. de BLAEL, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH:MRM63.2005Sandra WALLARD, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory to Water Bargaining, Coalitions and FairnessCTN65.2005Sandra WALLMAN (Ixxiv): Servers Sandra WALLARD, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory to Water Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLAMAN (Ixxiv): Servers Capital and Social Trust: Pre-Co	SIEV	53 2005	
 ETA 54.205 io Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.205 Gernot KLEPPER and Sonja PETERSON: Emissions Trading, CDM, JI, and More – The Climate Strategy of the EU ETA 56.205 Maia DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Atain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry RRM 58.2005 Helmut KARL, Anje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development Dimitra VOUVAKI and Anastasios XEPAPADEAS (Ixxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 60.2005 Andreas 1/0SCHEL and DUK T. G. RÜBBELKE: Impure Public Goods and Technological Interdependencies CCMP 61.2005 Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data ETA 62.2005 Irene VALSECCHI: A Role for Instructions NRM 63.2005 Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Lanalysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National Parks SIEV 64.2005 Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water Issues CTN 65.2005 Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory to Water Issues KTHC 67.2005 Eric M. USLANE (kixiv): Yarieties of Trust KTHC 71.2005 Formars P. LVON (kixiv): Making Capitalian Stroles and International Migration in Historical Perspective KTHC 72.2005 Eric M. USLANER (kixiv): Yarieties of Trust KTHC 69.2005 Eric M. ARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory to Water Issues KT		55.2005	
Io Plan: A Comparison of Structures vs. Equipment in a Panel of Italian Firms CCMP 55.2005 EU ETA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Atlan-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry ETA 57.2005 Billen-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry NRM 58.2005 Inforvations: Institutional Impacts on Co-operations for Sustainable Development Imovations: Institutional Impacts on Co-operations for Sustainable Development SIEV 59.2005 Dimitra VOUVAKI and Anastasios XEPAPADEAS (txxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 60.2005 Andreas LOSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Crhristoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data SIEV 64.2005 Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Park's Economic Efficiency and Sustainability. The Case of Italian National Parks SIEV 64.2005 Sizes Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of	ЕТА	54,2005	
EU Eu ETA 55.2005 Eu ETA 56.2005 Maia DAVID and Bernard SINCLAIR-DESGAGNÉ: Environmental Regulation and the Eco-Industry Alain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-Industry ETA 57.2005 Bernard SINCLAIR-DESGAGNÉ: Inpresence of an Eco-Industry NRM 58.2005 Innovations: Institutional Impacts on Co-operations for Sustainable Development Dimitra VOUVAKI and Anastasios XEPAPADEAS (1xxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 60.2005 Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Berno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of NRM 63.2005 Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of NRT 63.2005 Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water Issues Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: <tr< td=""><td>2</td><td>0 112000</td><td></td></tr<>	2	0 112000	
ETA56.2005Maia DAVID and Bernard SINCLAIR-DESGAGNË: Environmental Regulation and the Eco-Industry Alain-Désiré NIMUBONA and Bernard SINCLAIR-DESGAGNÉ: The Pigouvian Tax Rule in the Presence of an Eco-IndustryETA57.2005Eco-Industry Helmut KARL, Antje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable DevelopmentSIEV59.2005Dimitra YOUVAKI and Anaxtasia XEPAPADEA'S (1xxii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of GreeceCCMP60.2005Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Cristoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataETA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory to Water IssuesKTHC67.2005Sandra WALLMAN (1xxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Bargaining, Coalitions and FairnessKTHC70.2005Frick USANAW (1xxiv): Varieties of Trust the European UnionKTHC70.2005Frick USANAW (1xxiv): Yarieties of Trust the European UnionKTHC73.2005Frain UNISOFORO	CCMP	55.2005	· · · ·
ETA 57.2005 Eco-Industry NRM 58.2005 Helmut KARL, Antje MÖLLER, Ximena MATUS, Edgar GRANDE and Robert KAISER: Environmental Innovations: Institutional Impacts on Co-operations for Sustainable Development. SIEV 59.2005 Dimitra VOUVAKI and Anastasios XEPAPADEAS (1xxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of Greece CCMP 60.2005 Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss Data ETA 62.2005 Irene VALSECCHI: A Role for Instructions NRM 63.2005 Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National Parks SIEV 64.2005 Arianne T. de BLAELJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation Surveys CTN 65.2005 Carlo CARRARO, Carmen MARCHHORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water Issues KTHC 67.2005 Sandra WALLMAN (txiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Asimina CHRISTOFOROU (txiv): On the Determinants of Social Capital in Greece Compared to Countries of the European Union KTHC 69.2005 Frice M USLANER (Uxivi): Yarieties of Trust	ETA	56.2005	
NRM55.2005Innovations: Institutional Impacts on Co-operations for Sustainable DevelopmentSIEV59.2005Dimitra VOU/AKI and Anastasios XEPAPADEAS (Ixxii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of GreeceCCMP60.2005Andreas LOSC/HEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological InterdependenciesPRCG61.2005Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataETA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Rainame T. de BLAELI, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesKTHC67.2005Sandra WALLMAN (Ixxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC69.2005Erric M. USLANER (Ixxiv): Yarieties of TrustKTHC70.2005Thomas P. LYON (Ixxiv): Making Capitalism Work: Social Capital in Greece Compared to Countries of the European UnionKTHC72.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC73.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities, A Selected	ETA	57.2005	<u>Eco-Industry</u>
SIEV59.2005Dimitra VOUVAKI and Anastasios XEPAPADEAS (1xxiii): Criteria for Assessing Sustainable Development: Theoretical Issues and Empirical Evidence for the Case of GreeceCCMP60.2005Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataPRCG61.2005Irene VALSECCHI: A Role for InstructionsRTA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Arianne T. de BLAELJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Sandra WALLMAN (1xxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (1xxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Asimina CHRISTOFFOROU (1xxiv): On the Determinants of Social Capital and Economic Growth in Italy, 1970-1995 Graziella BERTOCCHI and Chiara STROZZI (1xxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (1xxv): Accommodating Differences Renato SANSA and Ercole SORI (1xxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey o	NRM	58.2005	
SIEV59.2005Development: Theoretical Issues and Empirical Evidence for the Case of GreeceCCMP60.2005Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological InterdependenciesPRCG61.2005Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataETA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Arianne T. de BLAELJ, Paulo A.L.D. NUNES and Jeroon C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Sandra WALLMAN (Ixxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Asimina CHRISTOFOROU (Ixxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (Ixxiv): Varieties of Trust KTHCKTHC71.2005Faraiela BERTOCCHI and Chiara STROZZI (Ixxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Accommodating Differences Renato SANSA and Ercole SORI (Ixxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONCO and Anil MARKANDYA: Identification of Options and Policy Instruments for the Internalisation of External Costs o			
CCMP60.2005Andrea's LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataPRCG61.2005Christoph A. SCHALTEGGER and Benno TORGLER: Trust and Fiscal Performance: A Panel Analysis with Swiss DataETA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Arianne T. de BLAELJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (Ixxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Asimina CHRISTOFOROU (Ixxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLAVER (Ixxiv): Varieties of Trust PerspectiveKTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (Ixxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Accommodating Differences Renato SANSA and Ercole SORI (Ixxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Sele	SIEV	59.2005	
PRCG61.2005Swiss DataETA62.2005Irene VALSECCHI: <u>A Role for Instructions</u> NRM63.2005Valentina BOSETTI and Gianni LOCATELLI: <u>A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: <u>Applications of Negotiation Theory to Water Issues</u>CTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: <u>Advances in Negotiation Theory: Bargaining, Coalitions and Fairness</u>KTHC67.2005Sandra WALLMAN (Ixxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Eric M. USLANER (Ixxiv): Yarieties of TrustKTHC70.2005Thomas P. LYON (Ixxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): <u>Citizenship Laws and International Migration in Historical Perspective</u>KTHC73.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (Ixxv): Accommodating DifferencesKTHC73.2005of External Costs of Electricity Generation. Dissemination of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making</u>	CCMP	60.2005	Andreas LÖSCHEL and Dirk T.G. RÜBBELKE: Impure Public Goods and Technological Interdependencies
ETA62.2005Irene VALSECCHI: A Role for InstructionsNRM63.2005Valentina BOSETTI and Gianni LOCATELLI: A Data Envelopment Analysis Approach to the Assessment of Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (txxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity? Asimina CHRISTOFOROU (txxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European Union KTHCKTHC69.2005Fric M. USLANER (txxiv): Varieties of Trust Graziella BERTOCCHI and Chiara STROZZI (txxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC71.2005Elsbeth van HYLCKAMA VLIEG (txxv): Accommodating Differences Renato SANSA and Ercole SORI (txxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	PRCG	61.2005	
NRM65.2003Natural Parks' Economic Efficiency and Sustainability. The Case of Italian National ParksSIEV64.2005Arianne T. de BLAELJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (Ixxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Asimina CHRISTOFOROU (Ixxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (Ixxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (Ixxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (Ixxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC73.2005Renato SANSA and Ecole SORI (Ixxv): Accommodating DifferencesKTHC73.2005Graatel Score SORI (Ixxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	ETA	62.2005	
SIEV64.2005Arianne T. de BLAEIJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice' Responses in Attribute Based Valuation SurveysCTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (lxxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Asimina CHRISTOFOROU (lxxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (lxxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Accommodating DifferencesKTHC73.2005Metto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the Internalisation Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	NRM	63.2005	
CTN65.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water IssuesCTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (lxxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Asimina CHRISTOFOROU (lxxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (lxxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating Differences Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	SIEV	64.2005	Arianne T. de BLAEIJ, Paulo A.L.D. NUNES and Jeroen C.J.M. van den BERGH: Modeling 'No-choice'
CTN66.2005Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Advances in Negotiation Theory: Bargaining, Coalitions and FairnessKTHC67.2005Sandra WALLMAN (lxxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Asimina CHRISTOFOROU (lxxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (lxxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	CTN	65.2005	Carlo CARRARO, Carmen MARCHIORI and Alessandra SGOBBI: Applications of Negotiation Theory to Water
KTHC67.2005Sandra WALLMAN (lxxiv): Network Capital and Social Trust: Pre-Conditions for 'Good' Diversity?KTHC68.2005Asimina CHRISTOFOROU (lxxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (lxxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making			
KTHC68.2005Asimina CHRISTOFOROU (Ixxiv): On the Determinants of Social Capital in Greece Compared to Countries of the European UnionKTHC69.2005Eric M. USLANER (Ixxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (Ixxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (Ixxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (Ixxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (Ixxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making			
KTHC68.2005the European UnionKTHC69.2005Eric M. USLANER (lxxiv): Varieties of TrustKTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making			
KTHC70.2005Thomas P. LYON (lxxiv): Making Capitalism Work: Social Capital and Economic Growth in Italy, 1970-1995KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	KTHC	68.2005	the European Union
KTHC71.2005Graziella BERTOCCHI and Chiara STROZZI (lxxv): Citizenship Laws and International Migration in Historical PerspectiveKTHC72.2005Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating DifferencesKTHC73.2005Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making			
KTHC 71.2005 Perspective KTHC 72.2005 Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating Differences KTHC 73.2005 Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the Internalisation IEM 74.2005 of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	KTHC		
KTHC 72.2005 Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating Differences KTHC 73.2005 Renato SANSA and Ercole SORI (lxxv): Governance of Diversity Between Social Dynamics and Conflicts in Multicultural Cities. A Selected Survey on Historical Bibliography IEM 74.2005 of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	KTHC	71.2005	
KTHC 73.2005 Multicultural Cities. A Selected Survey on Historical Bibliography Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the Internalisation of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	KTHC	72.2005	Elsbeth van HYLCKAMA VLIEG (lxxv): Accommodating Differences
Alberto LONGO and Anil MARKANDYA: Identification of Options and Policy Instruments for the InternalisationIEM74.2005of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making	KTHC	73.2005	
IEM 74.2005 of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making			
	IEM	74.2005	of External Costs of Electricity Generation. Dissemination of External Costs of Electricity Supply Making

IEM	75.2005	Margherita GRASSO and Matteo MANERA: Asymmetric Error Correction Models for the Oil-Gasoline Price
12.01	75.2005	Relationship
ETA	76.2005	Umberto CHERUBINI and Matteo MANERA: Hunting the Living Dead A "Peso Problem" in Corporate
		Liabilities Data
CTN	77.2005	Hans-Peter WEIKARD: Cartel Stability under an Optimal Sharing Rule
ETA	78.2005	Joëlle NOAILLY, Jeroen C.J.M. van den BERGH and Cees A. WITHAGEN (lxxvi): Local and Global
		Interactions in an Evolutionary Resource Game
ETA	79.2005	Joëlle NOAILLY, Cees A. WITHAGEN and Jeroen C.J.M. van den BERGH (lxxvi): Spatial Evolution of Social Norms in a Common-Pool Resource Game
		Massimiliano MAZZANTI and Roberto ZOBOLI: Economic Instruments and Induced Innovation: The Case of
CCMP	80.2005	End-of-Life Vehicles European Policies
NRM	81.2005	Anna LASUT: Creative Thinking and Modelling for the Decision Support in Water Management
		Valentina BOSETTI and Barbara BUCHNER: Using Data Envelopment Analysis to Assess the Relative
CCMP	82.2005	Efficiency of Different Climate Policy Portfolios
ETA	83.2005	Ignazio MUSU: Intellectual Property Rights and Biotechnology: How to Improve the Present Patent System
UTILO	04.0005	Giulio CAINELLI, Susanna MANCINELLI and Massimiliano MAZZANTI: Social Capital, R&D and Industrial
KTHC	84.2005	Districts
	95 2005	Rosella LEVAGGI, Michele MORETTO and Vincenzo REBBA: Quality and Investment Decisions in Hospital
ETA	85.2005	Care when Physicians are Devoted Workers
CCMP	86.2005	Valentina BOSETTI and Laurent GILOTTE: Carbon Capture and Sequestration: How Much Does this Uncertain
CUMP	80.2003	Option Affect Near-Term Policy Choices?
CSRM	87.2005	Nicoletta FERRO: Value Through Diversity: Microfinance and Islamic Finance and Global Banking
ETA	88.2005	A. MARKANDYA and S. PEDROSO: How Substitutable is Natural Capital?
IEM	89.2005	Anil MARKANDYA, Valeria COSTANTINI, Francesco GRACCEVA and Giorgio VICINI: Security of Energy
	89.2005	Supply: Comparing Scenarios From a European Perspective
CCMP	90.2005	Vincent M. OTTO, Andreas LÖSCHEL and Rob DELLINK: Energy Biased Technical Change: A CGE Analysis
PRCG	91.2005	Carlo CAPUANO: <u>Abuse of Competitive Fringe</u>
PRCG	92.2005	Ulrich BINDSEIL, Kjell G. NYBORG and Ilya A. STREBULAEV (lxv): Bidding and Performance in Repo
IKCO	72.2005	Auctions: Evidence from ECB Open Market Operations
CCMP	93.2005	Sabrina AUCI and Leonardo BECCHETTI: The Stability of the Adjusted and Unadjusted Environmental
		Kuznets Curve
CCMP	94.2005	Francesco BOSELLO and Jian ZHANG: Assessing Climate Change Impacts: Agriculture
CTN	95.2005	Alejandro CAPARRÓS, Jean-Christophe PEREAU and Tarik TAZDAÏT: Bargaining with Non-Monolithic
	75.2005	Players

(lxv) This paper was presented at the EuroConference on "Auctions and Market Design: Theory, Evidence and Applications" organised by Fondazione Eni Enrico Mattei and sponsored by the EU, Milan, September 25-27, 2003

(lxvi) This paper has been presented at the 4th BioEcon Workshop on "Economic Analysis of Policies for Biodiversity Conservation" organised on behalf of the BIOECON Network by Fondazione Eni Enrico Mattei, Venice International University (VIU) and University College London (UCL), Venice, August 28-29, 2003

(lxvii) This paper has been presented at the international conference on "Tourism and Sustainable Economic Development – Macro and Micro Economic Issues" jointly organised by CRENoS (Università di Cagliari e Sassari, Italy) and Fondazione Eni Enrico Mattei, and supported by the World Bank, Sardinia, September 19-20, 2003

(lxviii) This paper was presented at the ENGIME Workshop on "Governance and Policies in Multicultural Cities", Rome, June 5-6, 2003

(lxix) This paper was presented at the Fourth EEP Plenary Workshop and EEP Conference "The Future of Climate Policy", Cagliari, Italy, 27-28 March 2003

(lxx) This paper was presented at the 9th Coalition Theory Workshop on "Collective Decisions and Institutional Design" organised by the Universitat Autònoma de Barcelona and held in Barcelona, Spain, January 30-31, 2004

(lxxi) This paper was presented at the EuroConference on "Auctions and Market Design: Theory,

Evidence and Applications", organised by Fondazione Eni Enrico Mattei and Consip and sponsored by the EU, Rome, September 23-25, 2004

(lxxii) This paper was presented at the 10th Coalition Theory Network Workshop held in Paris, France on 28-29 January 2005 and organised by EUREQua.

(lxxiii) This paper was presented at the 2nd Workshop on "Inclusive Wealth and Accounting Prices" held in Trieste, Italy on 13-15 April 2005 and organised by the Ecological and Environmental Economics - EEE Programme, a joint three-year programme of ICTP - The Abdus Salam International Centre for Theoretical Physics, FEEM - Fondazione Eni Enrico Mattei, and The Beijer International Institute of Ecological Economics

(lxxiv) This paper was presented at the ENGIME Workshop on "Trust and social capital in multicultural cities" Athens, January 19-20, 2004

(lxxv) This paper was presented at the ENGIME Workshop on "Diversity as a source of growth" Rome November 18-19, 2004

(lxxvi) This paper was presented at the 3rd Workshop on Spatial-Dynamic Models of Economics and Ecosystems held in Trieste on 11-13 April 2005 and organised by the Ecological and Environmental Economics - EEE Programme, a joint three-year programme of ICTP - The Abdus Salam International Centre for Theoretical Physics, FEEM - Fondazione Eni Enrico Mattei, and The Beijer International Institute of Ecological Economics

	2004 SERIES
ССМР	Climate Change Modelling and Policy (Editor: Marzio Galeotti)
GG	Global Governance (Editor: Carlo Carraro)
SIEV	Sustainability Indicators and Environmental Valuation (Editor: Anna Alberini)
NRM	Natural Resources Management (Editor: Carlo Giupponi)
КТНС	Knowledge, Technology, Human Capital (Editor: Gianmarco Ottaviano)
IEM	International Energy Markets (Editor: Anil Markandya)
CSRM	Corporate Social Responsibility and Sustainable Management (Editor: Sabina Ratti)
PRA	Privatisation, Regulation, Antitrust (Editor: Bernardo Bortolotti)
ЕТА	Economic Theory and Applications (Editor: Carlo Carraro)
CTN	Coalition Theory Network

	2005 SERIES
ССМР	Climate Change Modelling and Policy (Editor: Marzio Galeotti)
SIEV	Sustainability Indicators and Environmental Valuation (Editor: Anna Alberini)
NRM	Natural Resources Management (Editor: Carlo Giupponi)
КТНС	Knowledge, Technology, Human Capital (Editor: Gianmarco Ottaviano)
IEM	International Energy Markets (Editor: Anil Markandya)
CSRM	Corporate Social Responsibility and Sustainable Management (Editor: Sabina Ratti)
PRCG	Privatisation Regulation Corporate Governance (Editor: Bernardo Bortolotti)
ЕТА	Economic Theory and Applications (Editor: Carlo Carraro)
CTN	Coalition Theory Network