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Le Breton, Michel; Makarov, Valery; Savvateev, Alexei; Weber, Shlomo

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Multiple Membership and Federal Sructures

Michel Le Breton, Valery Makarov, Alexei Savvateev and Shlomo Weber

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Michel Le Breton, Universitè de Toulouse I, GREMAQ and IDEI Valery Makarov, Central Economics and Mathematics Institute and New Economic School Alexei Savvateev, New Economic School Shlomo Weber, Southern Methodist University and CEPR

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Multiple Membership and Federal Sructures

Summary

We consider a model of the "world" with several regions that may create a unified entity or be partitioned into several unions (countries). The regions have distinct preferences over policies chosen in the country to which they belong and equally share the cost of public policies. It is known that stable \political maps" or country partitions, that do not admit a threat of secession by any group of regions, may fail to exist. To rectify this problem, in line with the recent trend for an increased autonomy and various regional arrangements, we consider federal structures, where a region can simultaneously be a part of several unions. We show that, under very general conditions, there always exists a stable federal structure.

Keywords: Partitions, Federal Structures, Stability, Cooperative Games

JEL Classification: C71, D71, H41

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Address for correspondence:

Alexei Savvateev New Economic School Moscow Russia E-mail: hibiny@mail.ru

1 Introduction

In this note we consider a model of country formation with a "world" consisting of multiple regions that may either form a unified entity or to be partitioned into several countries. Each country chooses a (possibly multidimensional) public policy whose cost is shared among country's regions. However, since regions have heterogenous preferences over public policies, some of them may find centrally chosen policies sufficiently distant from their ideal choices and may pose a threat of secession from the country to which they belong. A natural question is whether there are *stable partitions* of the world that do not admit a group of regions each benefiting by breaking away from the status quo. It turns out that, in general, the stability cannot be guaranteed. In particular, in the case where all regions within a country equally share the cost of public policies, even uni-dimensionality of the policy space and single-peakedness of regions' preferences do not guarantee the existence of a stable world structure (Bogomolnaia et al. 2007).

The paradigm of the centralized decision making, however, has been recently revised on both theoretical and empirical grounds. As Alesina et al. (2005, p.602) point out: "Historically, the nation state concentrated most of the authority in every policy domain. In recent decades, however, a more complex structure has begun to emerge, characterized by a demand for more autonomy (if not secession) at a sub-national level of country unions which assume certain policy prerogatives." Indeed, in the context of the federal structures and multiple public goods, the local governments assume an increasing responsibility for providing local public goods while macroeconomic and redistribution policies with the federal government. Regional projects that tackle the trade, environmental and migration issues play an ever increasing role across the globe. These observations indicate that from the theoretical point of view, the players (regions) may belong to several unions, each assigned to a certain aspect of the public policy and we therefore permit an option of the multiple union membership for every region. Note that a membership in several unions is a wide-spread phenomena as some European countries may sustain a simultaneous membership in the European Union, European Monetary Union, NATO, United Nations or WTO.

Thus, the regions could be members in several unions and we even allow allows for an opt-out option (Makarov (2003)) where some regions forego their participation in the provision of some public

goods. Every formed union of regions S is assigned a certain public project and a participation weight $\Lambda(S)$, where for every region r the sum of the participation weights over the unions r belongs to, must be equal to one. A set of unions with the corresponding participation weights will be called a *federal* structure.

Given a federal structure, some of the regions may reject the proposed arrangement and pose a threat of secession. Our secession requirement is very mild: a group of regions S poses a threat of secession if it can guarantee to every region in S a higher payoff than at least in one of the unions r belongs to. The main result of this paper yields the existence of stable federal structures. In order to prove our result we use the framework of cooperative game without transferable utility and rely on the Danilov's (1999) variant of the celebrated Scarf (1967) theorem on nonemptiness of the core.

The paper is organized as follows. In the next section we present the model and definitions and indicate the non-existence of a stable partition. In Section 3 we introduce the notion of federal structures and show the existence of a stable federal structure under the same assumptions that yield the nonexistence result in Section 2. Section 4 concludes.

2 The Model

Consider a model with a finite set $N = \{1, ..., n\}$ of regions, which can either constitute one (unified) country or be partitioned into several countries. Each country chooses a public policy, and we assume that the set of feasible policies is given by a multi-dimensional Euclidean space $P = \mathcal{R}^k$, where $k \ge 1$.

If a country $S \subset N$ forms it must choose a policy p in P. The policy implementation incurs monetary costs, denoted by g(S). We naturally assume that the costs are positive for every S and are weakly increasing with respect to inclusion:

A.1 - Cost Monotonicity: If the set of regions S is contained in a larger set S' then $g(S') \ge g(S)$.

Every region $r \in N$ has an ideal point $p^r \in P$ and the choice of any other policy $p \in P$ would generate a disutility for r, represented by the Euclidean distance $||p^r - p||$ between its ideal policy p^r and the policy p.

We assume that every region $r \in N$ has an initial endowment $y_r > 0$, a part of which is spent on

the implementation of the public policy chosen in the country of region r. That is, if country S chooses a policy $p \in P$ then every region $r \in S$ is assigned the monetary contribution t_r . We assume the total contributions of the regions cover the cost of public projects they participate in:

A.2 - Budget-balancedness: $\sum_{r \in S} t_r = g(S).$

To simplify the matters, we assume separability and linearity of the regions' preferences:

A.3 - Utilities: The utility of region r assigned to a monetary contribution t_r in the country with a public policy p, is given by $u(y_r - t_r, ||p^r - p||) = y_r - t_r - ||p^r - p||.$

In order to proceed with our results we make further assumptions on policy choices and allocation of their costs across regions. We assume that the policy choice in the country is determined through the majority voting mechanism. If the policy set P is unidimensional, for every country $S \subset N$ consider the set of its *median locations*. It is easy to see that every median location minimizes the aggregate cost of regions in S, and is, in fact, a solution to the following minimization problem:

$$\min_{p \in P} \sum_{r \in S} ||p^r - p||. \tag{1}$$

We denote the set of solutions to (??) by M(S). If the policy set P is multidimensional and the set of ideal points p^r is not located along a straight line, a solution to (??), denoted by m(S), is unique.¹ In the uni-dimensional case, M(S) could be an interval, and in this case m(S) will stand for the middle point of M(S). We impose the efficiency requirement:

A.4 - Efficiency: Every country S chooses its public policy at m(S).

Following Alesina and Spolaore (1997), Casella (2001), Jéhiel and Scotchmer (2001), Haimanko et al. (2004), Bogomolnaia et al. (2007) we assume, for simplicity, that all regions of the same country make an equal contribution towards the policy cost. The regions are hold responsible for their preferences, and are not compensated for their disutility of location of the chosen policy in the policy space P:²

A.5 - Equal Share: If the country S is created, every region in S makes the same monetary contribution:
$$t_r = \frac{g(S)}{|S|}$$
 for every $r \in S$.

¹In the mathematical programming literature, the value of the problem (??) is called Minimal Aggregate Transportation Cost of the set S.

 $^{^{2}}$ We could have assumed that each region contributes proportionally to its population, without altering the paper's main result.

The assumptions we impose allow us to reduce a country formation problem described above to determination of countries' composition; once formed, their policy actions and cost contributions are prescribed as above. We will denote by v(r, S) the indirect utility (or payoff) of the region $r \in S$ when country S forms: $v(r, S) = y_r - \frac{g(S)}{|S|} - ||p^r - m(S)||$.

We will examine partitions which are stable under secession threats. In other words, no group of regions could reduce their costs by forming a new country. Formally,

Definition 2.1: A collection $\pi = \{S_1, \ldots, S_K\}$ of pairwise disjoint subsets of N is called a *partition* if $\bigcup_{k=1}^{K} S_k = N$. The set of all partitions of N is denoted by Π .

Consider a partition π of N and denote by $S^r(\pi) \in \pi$ the country in π that contains r. Then, the utility of the region r is given by $v(r,\pi) = v(r, S^r(\pi))$.

We now offer the standard definition of (core) stability:

Definition 2.2: A partition $\pi = \{S_1, \ldots, S_K\}$ of N is called *stable* if there is no group of regions $S \subset N$ such that $v(r, S) > v(r, \pi)$ for every $r \in S$.

A stable partition may however fail to exist:

Proposition 2.3 (Bogomolnaia et al. 2007): There exists a set of regions N, satisfying assumptions A1-A5, which does not admit a stable partition.

3 Federal Structures

Note that the definition of partitions introduced in the previous section rules out situations where different facets of public policy are carried out under different group structures. For example, defense or foreign policy can be implemented by the grand coalition of regions, while education or health fall into jurisdiction of local authorities. A natural framework to incorporate this possibility would be allowing the regions to enter several unions, each responsible for a certain facet of public policy. A union does not necessarily include all regions, as one could easily imagine the case where only a group of regions is keen on developing of a public policy on, say, environment or migration, while other (possibly distant) regions may have a limited interest in those issues. In line with this comment we allow unions of regions to pursue different aspects of public policy. A degrees of participation intensity may vary across unions but is the same for all members of the same "rigid" (in terminology of Alesina et al., 2005) union. Some "disinterested" regions may even decide to forego their participation in certain parts of the public project, and, following Makarov (2003), we allow for an opt-out option. Formally, we consider a notion of *federal structure*, which consists of unions of regions formed to pursue different facets of public projects. Each union is assigned a participation weight and we only require that the sum of the participation weights over the unions a region belongs to, is equal to one for all regions:

Definition 3.1: A federal structure is a function $\Lambda : 2^N \setminus \emptyset \to [0, 1]$ that assigns every nonempty subset S of N a nonnegative value such that the equality $\sum_{S \in S^r} \Lambda(S) = 1$ holds for all $r \in N$, where S^r is the collection of subsets of N that contain $r.^3$

Note that every partition $\pi \in \Pi$ induces a federal structure Λ_{π} by assigning the value of one to every S from π and zero to all other subsets.

We will now introduce a secession requirement. First, for every federal structure Λ define the set of essential unions S with a positive degree of participation: $S_{\Lambda} = \{S \subset N | \Lambda(S) > 0\}.$

Then the utility level derived by region r, given Λ would be defined as follows:

$$v_m(r,\Lambda) = \min_{S \in \mathcal{S}_\Lambda \cap \mathcal{S}^r} v(r,S).$$
⁽²⁾

Now a secession threat by a group of regions S would simply require that S can guarantee to every region $r \in S$ a payoff which is higher than at least in one of effective unions r belongs to. Formally,

Definition 3.2: A group of regions S poses a threat of secession to the federal structure Λ if $v(r, S) > v_m(r, \Lambda)$ for every $r \in S$. A federal structure Λ is called stable if no group of regions poses a threat of secession to Λ .

Now, we state our main result.

Proposition 3.3: Under Assumptions A.1-A.5, there exists a stable federal structure Λ .

Proof of Proposition 3.3: To prove this result we will use Danilov (1999). For every nonempty $S \subset N$ denote by \Re^S the projection of the set \Re^n on coordinates in S. For every vector $y = (y_1, \ldots, y_n) \in \Re^n$ let $y^S \in \Re^S$ be a natural projection of y, that is, $y_r^S = y_r$ for every $r \in S$. A

³Note that in the cooperative game theory, a collection $\{\Lambda_S\}_{S \subset N}$ satisfying this equality is called *balanced*.

non-cooperative NTU-game V is a correspondence that assigns to each S a subset V(S) of \Re^S . Danilov (1999) proves the following variant of the Scarf's result:

- **D-Theorem:** Consider a non-cooperative NTU-game V, where for every $S \subset N$ the set V(S) is closed, bounded from above and satisfies the free disposal condition. Then there exists a vector $y \in \Re^n$, and a balanced collection (federal structure) Λ , satisfying two requirements:
 - (i) There is no $S \subset N$ such that $y^S \in int\{V(S)\}$, where $int\{V(S)\}$ stands for the interior of V(S); (ii) If $\Lambda_S > 0$ then $y^S \in V(S)$.

Now, for every nonempty $S \subset N$ define the set $\hat{V}(S) \subset \Re^S$ as follows:

$$\hat{V}(S) = \{ y^S \in \Re^S : v(r, S) \ge y_r^S \ \forall r \in S \}.$$

$$(3)$$

Clearly, the game \hat{V} satisfies the conditions of the D-theorem. Thus, there exist vector $y \in \Re^n$ and a balanced collection Λ which satisfy the requirements of D-Theorem. We claim that Λ is a stable mixed federal structure.

Indeed, suppose a group of regions S poses a threat of secession to Λ . That is, for each region $r \in S$ there exists $T(r) \in S_{\Lambda} \cap S^r$ such that v(r, S) > v(r, T(r)).

Since $\Lambda_{T(r)} > 0$, the assertion (ii) of the D-theorem implies that $y^{T(r)} \in \hat{V}(T(r))$, and, therefore, $v(r,T(r)) \ge y_r^{T(r)} = y_r$ for every $r \in S$. The last two inequalities guarantee that $v(r,S) > y_r$ for all $r \in S$. But then $y^S \in int\{\hat{V}(S)\}$, a contradiction to assertion (i) of the D-theorem. \Box

4 Conclusions

In this paper we consider a model of the "world" with multiple regions. The world is partitioned into countries, each consisting of one or several regions. The regions have distinct preferences over public policies chosen in their country and finance the cost of public projects through the equal share mechanism. Bogomolnaia et al. (2007) have shown that stable partitions, that are immune against threats of secession by groups of regions, do not necessarily exist. In order to rectify this problem and to examine a more flexible distribution of power and responsibility within countries, we allow every regions to belong to several unions, assigned to different facets of the public good project. This so-called *federal structure* consists of unions of regions, where each union is assigned a participation weight so that for every region the sum of the participation weights over the unions a region belongs to is equal to one. By using the Danilov variant (1999) of the Scarf theorem (1967) on nonemptiness of the core of a balanced game without side payments, we show that under our assumptions there always exists a stable federal structure.

There are two natural questions related to the result of this paper that remain open and are left for future research. What are conditions on the distribution of regions' preferences that guarantee the existence of stable partitions? Could one characterize the set of stable federal structures, especially in the environments that do not admit stable partitions?

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