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Rosas Martinez, Victor H.

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Kontakt/Contact

ZBW – Leibniz-Informationszentrum Wirtschaft/Leibniz Information Centre for Economics
Düsternbrooker Weg 120
24105 Kiel (Germany)
E-Mail: [rights\[at\]zbw.eu](mailto:rights[at]zbw.eu)
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Emptiness existence: A free-strategic view

By Victor H. ROSAS MARTINEZ [†]

Abstract. We formulate a theorem to always keep within mind on the emptiness existence followed by its mathematical proof, that takes as a base a single axiom named hipoteticity i.e. an element exists *iff* it has a structure.

Keywords. Emptiness; Existence; Coalitions; Game Theory.

JEL. C70,C71,C72,C79.

1. Existence

Axiom 1[*Hipoteticity*]: $\exists i \leftrightarrow \mathcal{S}(i)$
An element exists if and only if it has structure.

Theorem 2: $\exists \emptyset$
The emptiness exists.

Proof 4:

We generate an arbitrary set $N = \emptyset$ without loss of generality assume that its elements follow the next pattern

$$N = \{1, 2, 3, \dots, j, j + 1, \dots\}$$

note that $|N| \leq \infty = n$, where $|N|$ denotes the number of elements of N as well known as the cardinality of such set.

Can we write the power set of N

$$2^N = \{\{1\}, \{2\}, \dots, \{1; 2\}, \dots, \{1; 2; 3\}, \dots, \emptyset\}$$

with $|2^N| = 2^n$, and we can write the power set of 2^N

$$2^{2^N} = \{\{\{3\}, \{4\}\}, \{\{4\}, \emptyset\}, \emptyset, \dots, \{\{1; 2\}; \{1; 2; 3\}; /0\}, \dots\}$$

like this successively until here deducing the inner structure of the emptiness given by such respective pattern, because of contentions following the $\emptyset \in 2^N$; the $\emptyset, S1$ with $S1 \in 2^N \setminus \emptyset$; $\emptyset \in 2^{2^N}$; the $\emptyset, S2$ with $S2 \in 2^{2^N} \setminus \emptyset, \emptyset \in 2^{2^{2^N}}, \dots$

[†] Universita di Siena, Italy.



✉. victor.rosas@unisi.it

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In general the non-random and thus non-random set that is V_{i-1} that contains the emptiness equal to

$$V_{i-1} = \emptyset \cup \{\emptyset, S_i\}_{S_i \in T_i \setminus \emptyset}$$

$$\text{were } T_i = \begin{cases} 2^N & i = 1 \\ 2^{T_i-1} & i > 1 \\ \text{otherwise} & \end{cases} \mathcal{S}(\emptyset) = \{\dots, V_i, V_{i+1}, \dots\} \text{ and } \exists \emptyset \blacksquare^1$$

Notes

¹ The emptiness exists is the result whose proof and parallel paths, that could be composed by jumps among them are to always keep within mind.

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