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## Emptiness existence: A free-strategic view

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Abstract. We formulate a theorem to always keep within mind on the emptiness existence followed by its matematicall 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

*xiom 1*[*Hipoteticity*]: $\exists i \leftrightarrow S(i)$ 

An element exists if and only if it has structure.

#### *Theorem 2*:∃Ø

The emptiness exists.

#### Proof 4:

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

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

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

Can we write the power set of N

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

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

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

like this succesivelyuntil 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  $S1 \in 2N \setminus \emptyset$   $\emptyset$   $\emptyset \in 222N$ ;the  $\emptyset$ ,*S2*with  $S2 \in 22N \setminus \emptyset$ ,  $\emptyset \in 222N$ ;...

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

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

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

### Notes

<sup>&</sup>lt;sup>1</sup> 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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