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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

 \bigwedge 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 $|N| \le \infty = n$, 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

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

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

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

like this succesively until here deducing the inner structure of the emptiness given by such respective pattern, because of contentions following the $\emptyset \in 2N$; the \emptyset , S1 with $S1 \in 2N \setminus \emptyset$ $\emptyset \in 222N$; 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

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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