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The Multispace with its Multistructure as a Unified Field Theory FLORENTIN SMARANDACHE, University of New Mexico — Let $S_1, S_2, ..., S_n$ be n structures on respectively the sets $M_1, M_2, ..., M_n$, where $n \ge 2$ (n may even be infinite). The structures S_i , i = 1, 2, ..., n, may not necessarily be distinct two by two; each structure S_i may be or not n_i _concentric, for $n_i \ge 1$. And the sets M_i , i = 1, 2, ..., n, may not necessarily be disjoint, also some sets M_i may be equal to or included in other sets M_j , j = 1, 2, ..., n. We defined the **multispace** M as a union of the previous sets: $M = M_1 \cup M_2 \cup ... \cup M_n$, hence we have n (different or not, overlapping or not) structures on M. A multi-space is a space with many structures that may overlap, or some structures may include others or may be equal, or the structures may interact and influence each other as in our everyday life. Therefore for a unified field theory we build a multispace M with a multistructure as a union of a gravitational space, electromagnetic space, weak interactions space, and strong interactions space. Then we construct a corresponding physical model.

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