

Abstract Submitted  
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**Some Unsolved Problems, Questions, and Applications of the Brightsen Nucleon Cluster Model** FLORENTIN SMARANDACHE, University of New Mexico, Gallup Campus — Brightsen Model is opposite to the Standard Model, and it was build on John Wheeler's Resonating Group Structure Model and on Linus Pauling's Close-Packed Spheron Model. Among Brightsen Model's predictions and applications we cite the fact that it derives the average number of prompt neutrons per fission event, it provides a theoretical way for understanding the low temperature / low energy reactions and for approaching the artificially induced fission, it predicts that forces within nucleon clusters are stronger than forces between such clusters within isotopes; it predicts the *unmatter* entities inside nuclei that result from stable and neutral union of matter and antimatter, and so on. But these predictions have to be tested in the future at the new CERN laboratory.

Florentin Smarandache  
University of New Mexico, Gallup Campus

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