

Abstract Submitted  
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**A New Form of Matter – Unmatter, Composed of Particles and Anti-Particles** FLORENTIN SMARANDACHE, University of New Mexico, Gallup Campus — Besides *matter* and *antimatter* there must exist *unmatter* (as a new form of matter) in accordance with the neutrosophy theory that between an entity  $\langle A \rangle$  and its opposite  $\langle \text{Anti}A \rangle$  there exist intermediate entities  $\langle \text{Neut}A \rangle$ . Unmatter is neither matter nor antimatter, but something in between. An atom of unmatter is formed either by (1): electrons, protons, and antineutrons, or by (2): antielectrons, antiprotons, and neutrons. At CERN it will be possible to test the production of unmatter. The existence of unmatter in the universe has a similar chance to that of the antimatter, and its production also difficult for present technologies.

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