

Abstract Submitted  
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**The Neutral Pentaquark** RUSSELL MOON<sup>1</sup>, Consultant, FABIAN CALVO<sup>2</sup>, Consultant, VICTOR VASILIEV<sup>3</sup>, Prof., Dr. — Using the principles of the Vortex Theory, it was discovered that when the gamma ray strikes a nucleon, the positively charged pentaquark [and the  $K^-$  meson] had to be created by the collision with neutron. This discovery further reveals that if the gamma ray strikes a proton it can create a Neutral Pentaquark [and a  $D^+$  meson]. The neutral pentaquark will consist of an up, up, down, down, and an anti-charm quark, while the  $D^+$  meson will consist of a charm and an anti-down quark. The neutral pentaquark will later decay into a neutron and  $D^0$  meson. Because the vortex theory also reveals that the strong force couples a proton to a neutron, the neutron that was coupled to the proton in the nucleus will also be found amid the debris particles. 1. R. G. Moon, The Vortex Theory, The Beginning. Gordons Publications of Fort Lauderdale Fla., 2003, 184 pp. 2. R. G. Moon, The Vortex Theory Explains the Quark Theory. Gordons Publications of Fort Lauderdale Fla., 2005, 205 pp. 3. R.G. Moon, V.V. Vasiliev, The bases of the vortex theory, Book of abstracts The 53 International Meeting on Nuclear Spectroscopy and Nuclear structure, NUCLEUS-2003, October 7-10, 2003, Moscow, St.-Petersburg, Russia, 2003, p.251 4. R.G. Moon, V.V. Vasiliev, The Vortex Theory and Some Interaction in Nuclear Physics, Book of abstracts The 54 International Meeting on Nuclear Spectroscopy and Nuclear Structure, NUCLEUS-2004, June 22-25, 2004, Belgorod, Russia, 2004, p.259 5. R.G. Moon, V.V. Vasiliev. Explanation of the Conservation of Lepton Number, Book of abstracts LV National Conference on Nuclear Physics, Frontiers in the Physics of Nucleus, June 28-July 1, 2005, Saint-Petersburg, Russia, 2005, p. 347

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