

Abstract Submitted  
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**The Neutral Pentaquark** RUSSELL MOON, Consultant, FABIAN CALVO, Consultant, VICTOR VASILIEV, 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. References: 1. R.G. Moon, V.V. Vasiliev, Book of abstracts NUCLEUS-2003, October 7-10, Moscow, St.-Petersburg, Russia, p.251. 2. R.G. Moon, V.V. Vasiliev, Book of abstracts NUCLEUS-2004, June 22-25, Belgorod, Russia, p.259. 3. R.G. Moon, V.V. Vasiliev, Frontiers in the Physics of Nucleus, June 28-July 1, 2005, St-Petersburg, Russia, p. 34.7

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