

Abstract Submitted
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**The Explanation of the Photon's Electric and Magnetic Fields;
and its Particle and Wave Characteristics** RUSSELL MOON, Dr., VICTOR
VASILIEV, Pr. — Using the principles of the Vortex Theory, the creation of the
photon's electric and magnetic components are explained: the condensed region of
space is responsible for creating the photon's electric component and its particle
effect; its expansion and contraction is responsible for its frequency; its motion
through three dimensional space creates a wave in the surrounding space. This
wave is responsible for the photon's magnetic component and wave characteristics.
The simultaneous expansion and contraction of both the dense region of space that
is the photon and the surrounding space it passes through explains why the electric
and magnetic effects are at right angles to each other. Also the photon's particle
and wave characteristics are explained. 1. Russell Moon, *The Bases of the Vortex
Theory of Space*. Publishing house of ZNAK, Moscow, Russia, 2002, 32 pp., (in
Russian). 2 R.G. Moon, *The Possible Existence of a New Particle: the Neutral
Pentaquark?* Book of materials, The Research Centre of Ecological Safety of the
Russian Academy of Sciences: Scientific Seminar Of Ecology and Space 1, February
22, 2005, Saint-Petersburg, Russia, 2005, pp. 98-104.

Victor Vasiliev
Pr.

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