

Abstract Submitted
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Photon Frequency Shifts by its Spin and Hubble Galaxy Red Shift vs Distance¹ SANG BOO NAM, None — A new mechanism for the photon frequency shifts by its spin, occurring from the inertial frame to the non-inertial (rotating) frame, is discussed. The photon spin one is shown with the frequency shifts by the Maxwell equations, without quantization of the photon field. The shifts are found to be varying with the photon path length, distance between its source and its observer. With the rotation of our galaxy, they account for the Hubble galaxy red shift vs distance and red shifts via supernovae, and blue shifts via galaxies. The sunlight red and blue shifts by its spin, are predicted, with the earth-self rotation. A mechanical (rotation) scheme is given for determination of a particle spin.

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