

Abstract Submitted  
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**Suppressed Neutrino Emission** CHARLES GALLO — “Stimulated Emission of Electromagnetic Radiation” is a very well known phenomenon. However, neutrinos undergo the inverse phenomena of “Suppressed Emission of Neutrino Radiation.” The reason for the inverse phenomena between photons and neutrinos is their difference in statistical behavior. Photons are Bosons (with spin =  $h/2\pi$ ), while Neutrinos are Fermions (with spin =  $h/4\pi$ ). Multiple photons can occupy the same quantized energy state (and exhibit coherent behavior) while neutrinos can not. The emission of photons is Stimulated by the presence of other photons, while the emission of neutrinos is Suppressed by the presence of other neutrinos. This reduces the lifetime of photon excited states, but lengthens the lifetime of neutrino excited states. The related concepts of “Neutrino Redshifts” and “Blackbody Neutrino Radiators” will have important applications in astrophysics.

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