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Derivation of the Schwartzchild Metric From the "Self Censorship" of the ZPF (Zero Point Energy) in the GEM Theory JOHN BRANDENBURG, Morningstar Applied Physics LLC — The GEM theory (1) links the EM stress tensor directly to the metric tensor by the principle of "self censorship" of the ZPF (2) where the definition of $g_{uv} = F_{uw}F_v^w/4$ for Planck scale fields makes the stress tensor vanish even when fields are present. The first order form of the metric is recovered as Lorentzian due to alternating regions of strong electric and magnetic fields similar to that seen in models of spacetime in "Loop Gravity," where the model admits perturbations. The GEM ExB drift models of gravity is used The first order perturbations on the fields are considered to be of the order of the fine structure constant alpha. Radiation fields due to a single charged particle of mass M fall off as 1/r and give the values (G=c=1) $g_{tt} = 1-2M/r$ and $g_{rr} = (1-2M/r)$. (1) Brandenburg, J.E. (2012)., (2) STAIF II Conference Albuquerque NM 2.Brandenburg, J.E. (2007). IEEE Transactions On Plasma Science, Vol. 35, No. 4., p845.

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