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A geometric model in 3+1D space-time for electrodynamic phenomena

With three rotational degrees of freedom of spatial Dreibeins and an appropriate Lagrangian we describe electromagnetic phenomena. Stable solitonic excitations we compare with the lightest fundamental electric charges, electrons and positrons. Two Goldstone bosons we relate to the properties of photons. These particles are characterised by three topological quantum numbers, corresponding to charge, spin and photon number.

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