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QED and QCD Multiplication of the photon helicity by \hbar gives the eigenvalues of the photon angular momentum in quantum field theory. In direct analogy to Eq.

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loop contribution to $e^+e^- \rightarrow q\bar{q}g$ in massless QCD. By using covariant helicity representations for the spinor and vector wave functions we obtain the helicity amplitudes directly from the Feynman loop diagrams by covariant contraction.

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Geophysical Exploration, and Remote Sensing (Springer-Verlag, 1992). With Ronold W. P. King and Margaret Owens; See also

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CP-even Higgs 0^{++} bosons h , H
couple to the combination $\frac{1}{2} \kappa_1 \kappa_2$

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$= \frac{1}{2} (1 + \epsilon_1 \epsilon_2)$ while a CP-odd Higgs boson A_0 couples to $[\epsilon_1 \times \epsilon_2] \cdot k = \frac{1}{2} i \epsilon_1 \epsilon_2 (1 + \epsilon_1 \epsilon_2)$, where ϵ_i and $\epsilon_i = \pm 1$ are photon polarization vectors and helicities. The first of these structures couples to linearly polarized photons with the maximal strength if the polarizations

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Therefore, in a parity-invariant theory like QED you have to include both the $+1$ and -1 helicity photon fields.

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The representations do not have to be irreducible, so no one can stop us from thinking about a photon field with two polarizations. Reference [Weinberg]
Weinberg, S.

special relativity - Why photon only have helicity other ...

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We present the helicity amplitudes for the unequal mass single photon reaction $pp^- \rightarrow l+l^?$ in the s-channel including the lepton mass. The relative signs of these amplitudes are determined using simple invariance properties.

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In order to estimate the method's sensitivity, I calculate the Compton edge from the Eq.(3.2) for an incident photon energy 2.32 eV (the widely popular green laser) in the Earth's gravitational field ($U = GM/R = 6.95$

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