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Exact calculation of photon polarization observables in Bethe-Heitler process

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The effects of polarization transfer from the initial electron to the bremsstrahlung photon in the electron–nucleus scattering (Bethe-Heitler process) are considered. The calculation is done without the assumption of smallness of the electron mass nor the limitation to small photon emission angles. Detailed comparison with a series of preceding papers is done. The results are applicable to the modelling of the polarized cross sections at low energies and beyond, even at a few MeV.

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