

PHOTON POLARIZATION IN RADIATION
EMITTED FROM RELATIVISTIC CHARGED
PARTICLES UNDER CHANNELING
IN CRYSTAL

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Radiation emitted from a relativistic charged particle channeling in the crystal is studied in the framework of quantum electrodynamics to calculate the polarization characteristics of this radiation. The analytic expressions for the Stokes parameters of emitted photons are derived, computer codes are developed, and polarization characteristics are calculated for the frequencies with maximum intensity radiation.