ON SPECTRAL DISTRIBUTIONS OF RADIATION BY HIGH-ENERGY ELECTRONS

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S u m m a r y

Formulae for the spectral and spectral-angular densities of radiation by relativistic electrons in an external nonuniform field are explored in the quasiclassical approach by taking the recoil and nondipole radiation factors into account. To compute with the formulae, a numerical method is set out. The extreme cases relevant to the radiation from an angle-type trajectory and to the constant-field approximation are considered. The results of exact and approximate calculations are presented for the radiation by high-energy electrons in the field of a single atomic string into the crystal.