

Synchrotron Radiation Spatial Structures inside the Bunch, S.G. ARUTUNIAN, M.R. MAILIAN, YerPhi -

In the case, when bunch moves along the curved trajectory the synchrotron radiation inside the bunch has an asymmetric spatial structure with respect to radial coordinate. Considered in the paper effects of particles scattering on the synchrotron radiation also depend on this coordinate. The microstructure of synchrotron type beamstrahlung is considered, too. The dynamic transformation of beamstrahlung during the bunches collision is analysed.