



Contribution ID: 135

Type: **not specified**

Crystalline Undulator Radiation of Microbunched Beams Taking into Account the Medium Polarization

Monday, 24 September 2012 19:47 (1 minute)

Analytical and numerical results are obtained on the angular and spectral distributions as well as on the total number of the photons of the coherent X-ray crystalline undulator radiation (CXCUR) produced by microbunched beams passing through a crystalline undulators (CU). The results show that one can use CXCUR for studying the microbunching process in XFELs and for production of additional monochromatic intense beams

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Session Classification: PS1 Poster Session

Track Classification: Poster Session