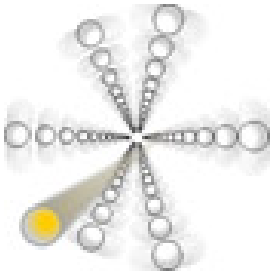

Contribution ID: **23** Type: **not specified**

UV and X-Ray Diffraction and Transition Radiation from Charged Particles Bunches

Monday, 24 September 2012 19:25 (1 minute)

UV and X-ray polarization radiation of the bunch of charged particles, both diffraction radiation and transition radiation, is investigated theoretically in case when the bunch flies near the edge screen. The form factor is obtained in the most general form, both for longitudinal and transverse distributions particles over the bunch. The form factor is proved to depend on dielectrical properties of the target in general case. Also, it is shown that the incoherent part of the form factor exists.

Primary author: SERGEEVA, Darya (National Research Nuclear University "MEPhI")

Co-authors: TISHCHENKO, Alexey (National Research Nuclear University "MEPhI"); STRIKHANOV, Mikhail (National Research Nuclear University "MEPhI")

Presenter: SERGEEVA, Darya (National Research Nuclear University "MEPhI")

Session Classification: PS1 Poster Session

Track Classification: Poster Session