



Contribution ID: 11

Type: **not specified**

Study of the physics models for fluence simulation in LHC environment

Thursday 13 June 2019 09:00 (20 minutes)

At the end of LHC Run II fluence in silicon trackers reached the level 10^{15} 1MeV neq/cm². Comparison of prediction with measurements showed some discrepancies between experiments which may be driven by differences in tools used for the simulation. In this study, we compared two physics models: Pythia 8.2 and DPMJET3 used for the fluence simulation in Fluka package for geometry of the typical LHC silicon tracker.

Author: OBLAKOWSKA-MUCHA, Agnieszka (AGH University of Science and Technology (PL))

Co-authors: SZUMLAK, Tomasz (A); WINIARSKA, Barbara (AGH UST Krakow)

Presenter: OBLAKOWSKA-MUCHA, Agnieszka (AGH University of Science and Technology (PL))

Session Classification: Defects and Material Characterization