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Study of the physics models for fluence simulation in LHC environment

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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.

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