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## **Benchmark between FLUKA and radiation detectors**

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The latest comparisons between the measurements of the radiation detectors and the simulated values using the FLUKA code are presented. The focus is on the benchmarks for the LHC for the Total Ionising Dose (TID) recorded by the Beam Loss Monitors (BLMs) in discrete locations of IP1 and IP5, and by the Optical Fibre as a continuous passive measurement in the Dispersion Suppressor of IP1, as well as for Single Event Effect (SEE) counted by the Radiation Monitors (RadMons). In addition, the radiation monitor benchmarks in the CHARM facility are provided.

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**Session Classification:** Research