DarkSHINE Simulation software framework

This talk introduces the DarkSHINE Simulation software. DarkSHINE is a fixed-target dark photon search experiment based at Shanghai SHINE facility. The DarkSHINE Simulation software integrates generator, simulation, digitization, reconstruction, and analysis chain. There are three main parts, DSimu, DAna, and DDis. DSimu is a simulation software based on Geant4 and ROOT, characterized by DarkSHINE detector. DAna is a software framework for the analysis and reconstruction tools. DDis is the event display tool for DarkSHINE project specifically.

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