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Dark SHINE Simulation software framework

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This talk introduces the Dark SHINE Simulation software. Dark SHINE is a fixed-target dark photon search experiment based at Shanghai SHINE facility. The Dark SHINE 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 Dark SHINE detector. DAna is a software framework for the analysis and reconstruction tools. DDis is the event display tool for Dark SHINE project specifically.

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