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FLUKA and the Virtual Monte Carlo

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The ALICE Offline Project has developed a virtual interface to the detector transport code called Virtual Monte Carlo. It isolates the user code from changes of the detector simulation package and hence allows a seamless transition from GEANT3 to GEANT4 and FLUKA.

Moreover, a new geometrical modeler has been developed in collaboration with the ROOT team, and successfully interfaced to the three programs. This allows the use of one description of geometry, which can be used also during reconstruction and visualization.

In this paper we present the present status of the Virtual Monte Carlo and in particular the FLUKA Virtual Monte Carlo implementation, its testing and application for detector response simulation and radiation studies.

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