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GEANT4E: Error propagation for track reconstruction inside the GEANT4 framework

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GEANT4e is a package of the GEANT4 Toolkit that allows to propagate a track with its error parameters. It uses the standard GEANT4 code to propagate the track and for the track propagation it makes an helix approximation (with the step controlled by the user) using the same equations as GEANT3/GEANE. We present here a first working prototype of the GEANT4e package and compare its results and performance to the GEANE package.

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