

KDetSim - a ROOT based detector simulation package

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A full 3D package for charge collection simulations in semiconductor detectors has been developed within the ROOT framework. It solves Poisson and Laplace equations for a given space charge in different materials. The simulation of induced current takes into account all relevant physics processes such as drift, diffusion and impact ionization and trapping. The basics/fundamentals of the package will be described and several examples shown.

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