

Track reconstruction in high density environment

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Tracks finding and fitting algorithm in ALICE barrel detectors, Time projection chamber (TPC), Inner Tracking System (ITS), Transition radiation detector (TRD) based on the Kalman-filtering are presented. The filtering algorithm is able to cope with non-Gaussian noise and ambiguous measurements in high-density environments. The approach have been implemented within the ALICE simulation/reconstruction framework (ALIROOT), and algorithm's efficiency have been estimated using the ALIROOT Monte Carlo data.

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