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 V^0 Reconstruction in the CMS Tracking Detector BRIAN DRELL, University of Colorado, Boulder, CMS COLLABORATION — The reconstruction of neutral K mesons and Λ baryons is required by a variety of analyses in CMS, including B-tagging, particle flow, and B physics analyses. A module within the CMS computing framework has been developed for the fast and efficient reconstruction of V^0 particles using charged tracks from the CMS tracking detector at LHC. This talk will outline the vertex reconstruction method used and will present a summary of our approach to improving computing time and reconstruction efficiency. I will also present an approach to increasing V^0 reconstruction efficiency by improving the tracking efficiency of particles originating from positions displaced from the beam axis.

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