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Tracking performance for long living particles at LHCb

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The LHCb experiment is dedicated to the study of the c- and b-hadrons decays, including long living particles such as Ks and strange baryons (Lambda, Xi, etc...). These kind of particles are difficult to reconstruct from LHCb tracking systems since they escape the detection in the first tracker. In this talk the performance of the tracking algorithms for detecting long living particles are studied and compared with other methods. Special emphasis is laid on the tracking reconstruction achievements with the new LHCb upgrade detector.

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Track Classification: 4: Intelligent tracking detectors and sensors