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Beam composition analysis using a single shashlik-type calorimetry module

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The upcoming LHCb calorimetry upgrade, aimed to allow LHCb detectors to operate with higher luminosity, implies significant hardware modifications to the present ECAL. These changes include replacement of the current shashlik-type modules with spaghetti-type for the inner part, upgrade of the shashlik modules to improve time resolution and possible removal/modification of the HCAL (Hadron Calorimeter). Such changes require detailed studies including the test beam campaign with electron and hadron beams of different energies. This talk presents the results of the hadron beam particle composition analysis performed at H8 testbeam line in August 2021. The analysis is based on the data recorded with a standard single-cell LHCb ECAL module, threshold Cherenkov detector and tracking system based on three DWC (delay-wire chamber) stations.

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