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Measuring the photon yield in the RICH subdetectors at LHCb

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The RICH is a subdetector of the LHCb experiment, it is used to distinguish between Pions,Kaons and Protons in a momentum range of 1-100 GeV. The RICH detects Cherenkov radiation which is emitted by particles as they pass through gas and aerogel mediums. The performance of the detector is dependent on the photon yield - the number of Cherenkov photons that are detected by the RICH. This presentation describes the statistical technique which is used to measure the photon yield.

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