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Pictures, figures, and plots

Pictures from Detector Paper

- Photomultiplier tubes in the upper box of the LHCb experiment's RICH 1 detector
- The mirrors for the LHCb experiment's RICH detector are installed in the cavern
- The first Cherenkov rings from the RICH1 detector of the LHCb detector
- RICH2 arrives in the LHCb tunnel after being lowered through a vertical shaft
- Lowering RICH2 into the underground cavern required millimetric precision
- Le convoi du LHCb RICH2 photographié de jours
- The RICH2 convoy, having just left Building 156 where it was assembled, on its way to Point 8 and the LHCb cavern
- Préparation du convoi RICH2 de l'expérience LHCb
- LHCb ring imaging Cherenkov detector mirrors
- Detector LHCb/RICH2 in building 156
- LHCb RICH2 test setup with a focusing mirror and the HPD (Hybrid Photodiode Detector)

Prospects for future upgrade of the LHCb RICH system
- Strategy and Automation of the Quality Assurance Testing of MaPMTs for the LHCb RICH Upgrade
- The micro-Resis7ve WELL detector for the phase 2 upgrade of the LHCb muon detector
- Radiation Damage of LHCb's Silicon Detector Systems
- A new readout electronics for the LHCb Muon Detector Upgrade
- Strategy and Automation of the Quality Assurance Testing of MaPMTs for the LHCb RICH Upgrade
- First results from production testing of 64-channel MaPMT R13742 (1 in) and R13743 (2 in) for the LHCb RICH Upgrade
- LHCb full-detector real-time alignment and calibration: latest developments and perspectives
- LHCb full-detector real-time alignment and calibration: latest developments and perspective
- Search for gluon saturation at Bjorken-$x \in [10^{-6}, 10^{-4}]$ with the LHCb detector(ID:39)
- The LHCb RICH Upgrade: Development of the DCS and DAQ system
- Silicon photomultiplier arrays for the LHCb scintillating fibre tracker
- Measurement of the photon polarization in radiative $B^0_s\to J/\psi K_S$ decays at LHCb
- A New Readout Electronics for the LHCb Muon Detector Upgrade
• Development and test of the CO2 evaporative cooling system for the LHCb UT Detector
• Production and Quality Assurance of a Scintillating Fibre Detector for the LHCb Experiment
• Beam test results for the upgraded LHCb RICH opto-electronic readout system
• High rate tests of the LHCb RICH Upgrade system
• Real-time alignment and calibration of the LHCb Detector in Run II
• LHCb RICH Upgrade: an overview on the photon detector and the electronics system
• LHCb - SALT, a dedicated readout chip for strip detectors in the LHCb Upgrade experiment
• LHCb: Behaviour of Multi-anode Photomultipliers in Magnetic Fields for the LHCb RICH Upgrade
• LHCb : The upgraded LHCb RICH detector: status and perspectives
• LHCb : Novel real-time alignment and calibration of the LHCb Detector in Run2
• Real-time alignment and calibration of the LHCb Detector in Run II
• LHCb : Clock and timing distribution in the LHCb upgraded detector and readout system
• LHCb : A Scintillating Fibre Trackind Detector for the LHCb Upgrade
• LHCb Observation of photon polarization in the $b \rightarrow c\bar{c}\gamma$ transition
• LHCb Search for new physics in the $b \rightarrow c\bar{c}\gamma$ decays with LHCb detector at LHC
• LHCb: The Front-End electronics for the LHCb scintillating fibres detector
• LHCb: Detector Module Design, Construction and Performance for the LHCb SciFi Tracker
• Search for the lepton flavour violating decay $\tau^-\rightarrow\mu^+\mu^-\mu^-$ with the LHCb detector
• LHCb: Characterisation and magnetic field properties of Multianode Photomultiplier tubes for the use in LHCb Upgrade RICH detectors
• LHCb: FPGA-based, radiation-tolerant on-detector electronics for the upgrade of the LHCb Outer Tracker Detector
• LHCb: The Performance and Radiation Hardness of the Outer Tracker Detector for LHCb
• LHCb: Photon polarisation B in $b \rightarrow c\bar{c}\gamma$ using B $\rightarrow K^* e^+e^-$ at LHCb
• The LHCb RICH silica aerogel performance with LHC data
• The LHCb RICH Detector Control System
• Cross Talk Study to the Single Photon Response of a Flat Panel PMT for the RICH Upgrade at LHCb
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• LHCb: Alignment of the LHCb Detector with Kalman Filter Fitted Tracks
• LHCb: Installation and operation of the LHCb Silicon Tracker detector
• LHCb: Ageing Tests and Recovery Procedures of Silica Aerogel
• LHCb: Magnetic Distortion Measurement System of the LHCb RICH2 Detector
• LHCb: Quantum Efficiency of Hybrid Photon Detectors for the LHCb RICH
• LHCb: Quality Assurance of Pixel Hybrid Photon Detectors for the LHCb Ring Imaging Cherenkov Counters
• LHCb: Carbon Fibre Spherical Mirrors for the LHCb RICH 1 Detector
• LHCb: The Calorimeter System of the LHCb Detector
• LHCb: Status of the LHCb silica aerogel Cherenkov radiator
• LHCb Rich Detectors
• LHCb: High Voltage system for the LHCb calorimeter detectors at CERN
• LHCb: Controls for LHCb detector
• LHCb: Reconstruction and calibration strategies for the LHCb RICH detector
• LHCb RICH detectors
• Calibration of LHCb RICH detectors with $\Lambda \rightarrow p\pi$ decay using data
• LHCb: Probing photon polarization in $B_s \rightarrow \phi\gamma$ decay at LHCb
• LHCb: The RICH detectors of the LHCb experiment
• LHCb: Rich B-field
• LHCb: Rich
• LHCb: Pixel Rich
• LHCb: Detector 2
- LHCb: Detector
- LHCb: Early physics with the LHCb detector
- LHCb: Early physics with the LHCb detector
- Characterisation of Hybrid Photon Detectors for the LHCb Experiment: Conference 10th Pisa Conference, La Biodola, Isola d'Elba, Italy 21-27, 2006
- Reconstruction and calibration strategies for the LHCb RICH detector
- Hybrid Photon Detectors in the LHCb RICH System
- LHCb: a RICH with aerogel
- LHCb: A direct measurement of the avalanche charge in the RPC detector
- LHCb: Use of 4 large area HPDs to detect Cherenkov rings from aerogel
- LHCb: Performance of hybrid photon detector prototypes with encapsulated silicon pixel detector and readout for the RICH counters
- LHCb: A fast triple-GEM detector for high-rate charged-particle triggering
- LHCb: Precision optical systems for the new generation of RICH detectors
- CARIOCA: A Fast Binary Front-End Implemented in 0.25Pm CMOS using a Novel Current-Mode Technique for the LHCb Muon Detector

**EPJC Journal**

- EPJC_73_5_FRONTCOVER.pdf: EPJC Front Cover (PDF)
- EPJC_73_5_FRONTCOVER.tif: EPJC Front Cover (TIFF)

**Run 2 mirror alignment trend plots**

- Alignment trend plots

**Old figures**

These figures may be **out of date**, don't use them!

![RICH detectors in IP8](image-url)
HPD: 18 mm 61-pixel

- rich1-2d-schematic.pdf: RICH1 without aerogel