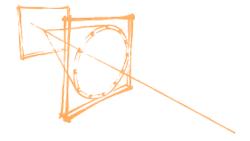
## 7th International Workshop on Ring Imaging Cherenkov detectors (RICH 2010)



ID de Contribution: 65

Type: Oral presentation

## The time-of-propagation counter for Belle II

mercredi 5 mai 2010 14:30 (30 minutes)

The Belle II detector operating at the future upgrade to the KEKB accelerator will perform high-statistics precision investigations into the flavor sector of the Standard Model. As charged hadron identification is a vital element of the experiment's success, the time-of-propagation (TOP) counter has been chosen as the primary particle identification device in the barrel region of Belle II. The TOP counter is a compact variant of the DIRC technique and relies heavily on exquisite single photon timing resolution with micro-channel plate photomultiplier tubes. We discuss the general principles of TOP operation and optimization of the Belle II TOP configuration, which is expected to provide 4 sigma or better separation of kaons and pions up to momenta of approximately 4 GeV/c.

Please indicate "poster" or "plenary" session. Final decision will be made by session coordinators.

plenary

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Classification de thématique: Novel Cherenkov imaging techniques