



Contribution ID: 54

Type: **Invited Talk**

Detectors for particle identification

Friday 23 February 2007 09:00 (50 minutes)

The paper will review recent progress in particle identification methods. After a survey of motivations and requirements for particle identification in various experimental environments, the main emphasis will be on the development of new ring imaging Cerenkov counters. A number of new techniques has emerged recently, from upgrades of existing devices to a novel focusing radiator concept and new photon detectors. The benefits will be discussed of including a precise measurement of the time of arrival of Cerenkov photons, from reducing the background level to the much more ambitious use in combined time-of-flight (TOF) or time-of-propagation counters. The paper will also discuss progress in dedicated TOF counters with recently developed very fast photon detectors.

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