

Recent Progress in Photodetectors

Tuesday, February 16, 2016 9:00 AM (45 minutes)

The paper will review recent progress in photodetectors: vacuum based detectors (PMTs, MCP PMTs), solid state detectors (SiPMs, APDs) and hybrid detectors (HPD, HAPDs). It will discuss advances in photon detection efficiency, timing properties, as well as improvements in radiation hardness, resistance against ageing and suppression of internal noise. As a motivation for these improvements it will also discuss several applications that drive this progress in the fields of experimental particle physics (in particular RICH and DIRC type counters, and calorimeters) and in detectors for medical imaging (TOF PET).

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