Contribution ID : **128**   Type : **Plenary/section talk**

Advanced Processing of SiPM Timing Resolution

Friday, 14 October 2016 15:45 (15)

Standards analog technique in experimental physics doesn't allow to achieve very high timing resolutions of the detectors based on SiPMs and fast scintillators. One of the reasonable method to obtain that more precisely is usage the digital processing algorithms.

We measured single photon timing resolution (SPTR) of a series of timing optimized KETEK SiPM samples of 3x3 mm2 and coincidence timing resolution (CTR) of long and short LYSO crystals with same photodetectors. The results of usage the offline digital processing algorithm on this data will be presented.

Primary author(s) :   Mr. STIFUTKIN, Alexey (NRNU MEPhI); Mr. PHILIPPOV, Dmitry (NRNU MEPHI); Dr. POPOVA, Elena (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)); Mr. BUZHAN, Pavel (National Research Nuclear University MEPhI (Moscow Engineering Phisics Institute)); Dr. VINOGRADOV, Sergey (LPI RAS, NRNU MEPhI, University of Liverpool, Cockcroft Institute of Accelerator Science and Technology); Prof. BELYAEV, Vladimir (NRNU MEPhI)

Presenter(s) :   Mr. PHILIPPOV, Dmitry (NRNU MEPHI)

Session Classification :   Methods of experimental physics - parallel VIII

Track Classification :   Methods of experimental physics