

Study of the 16-channel scintillation detector prototype with SiPM readout

Tuesday, 10 November 2020 16:45 (15 minutes)

The paper presents measurements of the noise characteristic of SiPM in the temperature range from 27.7 °C to 39.1 °C, as well as study of the response of the detector prototypes Ketek and Hamamatsu with SiPM readout to the LED at different voltages. The prototype with SiPM readout from Ketek was tested on the JINR Nuclotron deuteron beam at the energy of 4 GeV/nucleon. Time resolution and amplitude of the signal have been estimated.

Primary author: TISHEVSKIY, Aleksey (JINR)

Co-authors: GURCHIN, Yu.V.; ISUPOV, A.Yu.; KHRENOV, A.N.; LADYGIN, V.P.; REZNIKOV, S.G. (JINR); TEREKHIN, A.A.; VOLKOV, I.S.

Presenter: TISHEVSKIY, Aleksey (JINR)

Session Classification: High energy physics

Track Classification: HEP II - detectors/electronics