

Development of position event reconstruction algorithm for full-body gamma-camera based on SiPM's.

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New generation of detectors for nuclear medicine will be based on Silicon Photomultipliers (SiPM's) due to their high gain, compact size, low weight and low operating voltage. The one main problem of SiPM's is presence of noise factors such as dark count rate, crosstalk and afterpulses. In such conditions it needs to develop the algorithm of positioning reconstruction allows to reach spatial resolution better than 3 mm. The last obtained results will be presented.

Presentation type

Section talk (10+5 min)

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