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Development of the scintillation detector prototypes with SiPM readout for SPD at NICA

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The Beam-Beam Counter is a system for local polarimetry and local luminosity monitoring at the Spin Physics Detector at NICA. The main option of the Beam- Beam Counter for SPD at NICA is the scintillation counters with SiPM readout. The work presents the first results on scintillation detector prototype using developed Front-end electronics (FEE) based on the Time-over-Threshold (ToT) technique. The procedure of the time-walk correction is discussed.

Primary author(s) : Mr. TISHEVSKIY , Aleksey; Mr. ISUPOV , Alexander; REZNIKOV , Sergey; Mr. LADYGIN , Vladimir

Co-author(s) : Mr. GURCHIN , Yuri; Mr. TEREKHIN , Arkady; Mr. KHRENOV , Anatoly; Mr. VOLKOV, Ivan

Presenter(s) : Mr. TISHEVSKIY , Aleksey

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