

Forward scintillator and quartz hodoscopes for BM@N experiment

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The scintillator and quartz hodoscopes for BM@N experiment at Dubna (Russia) are discussed. They will detect the nuclear fragments produced in ion-ion collisions near the beam axis. The scintillator or quartz types will be used depending on the atomic number of beam ions and on the radiation conditions near the beam axis. The hodoscope consists of 16 scintillator or quartz strips with the length of 16 cm and 1 cm width each. The light from both ends of the scintillator/quartz strip is readout by the silicon photomultipliers (SiPMs). The values of light yield and its longitudinal non-uniformity are measured in the tests at the electron beam. The obtained performance of the hodoscopes will be reported.

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