Contribution ID : **703** Type : **Poster**

Forward scintillator and quartz hodoscopes for BM@N experiment

Monday, 5 October 2020 17:30 (150)

At present, the BM@N experimental setup is prepared for the next stage of operation with light and heavy ion beams. The particles from ion collisions with very forward rapidity will be detected by Forward Hadron Calorimeter. To avoid the problems with the radiation damages and high beam intensities, the calorimeter has the central beam hole. The most of the bound fragments from ion reactions leak in this beam hole that leads to the ambiguity to the energy depositions for central and peripheral events. To identify these bound fragments, an additional detector, forward hodoscope will be installed in the calorimeter central hole. For the light/heavy ion beams the segmented scintillator/quartz hodoscopes will be used, respectively. The physics performance and the results of the tests of hodoscopes with electron beam and cosmic muons will be reported.

Primary author(s) : БАРАНОВ, Александр; IVASHKIN, Alexander (INR RAS)

Presenter(s) : БАРАНОВ, Александр

Session Classification : Poster session

Track Classification : Facilities and advanced detector technologies