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Study of the spectators charge distributions in event generators for the BM@N experiment

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To study physical observables in the BM@N experiment, it is extremely important to have a model that can describe the data well. The BM@N experiment will have a new collection of the collision data for Xe+CsI@3.9 AGeV. The Scintillation Wall is one of the detectors of the BM@N experiment installed in front of the forward hadron calorimeter and designed to measure the distributions of charged fragments. Modeling the charge distributions of fragments on this detector will make it possible to compare them with experimental distributions and also use them to determine centrality. The comparison of the charge distributions in the Scintillation Wall using DCM-SMM, PHQMD-SACA and PHQMD-MST generators has been done.

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