

Realistic simulation of BM@N GEM detectors: model implementation and testing

Monday, 2 October 2017 15:10 (170)

The Lorentz shift of electrons in a magnetic field is taken into account with simulating the response of a GEM detector for the BM@N experiment. Dependences of the determined coordinate x on the track angle, the values of the Lorentz shift of electrons and its dispersion for the gas mixtures ArC02 and ArC4H10 were obtained. The momentum resolution was obtained as a function of the momentum for the deuteron-carbon (dC) process, and the invariant mass of the Λ -hyperon was determined. The obtained results are close to those obtained in the experiment.

Primary author(s) : Ms. MAMONTOVA, Tatiana (NRNU MEPhI)

Presenter(s) : Ms. MAMONTOVA, Tatiana (NRNU MEPhI)

Session Classification : Poster session and coffee&reception