

## TOF700 to ZDC track matching on the Ar - data at the BM@N experiment

*Monday, 24 October 2022 15:15 (15 minutes)*

BM@N (Baryonic Matter at Nuclotron) is the first fixed target experiment at NICA Facility at JINR (Dubna, Russia). It is designed to study nuclear-nuclear collisions at high densities. The research program in Run-7 was devoted to studies of cross section of inelastic reactions  $Ar + A \rightarrow X$  with the beam kinetic energy from 2.3 to 3.5 GeV and different targets: C,Al,Cu,Pb,Sn.

The report presents a procedure for matching an extrapolated track from TOF700 (Time-of-Flight system) with its response in ZDC (Zero Degree Calorimeter) on experimental data (Run-7). This is an important step in evaluating the centrality of events.

**Primary author:** Ms ALISHINA, Ksenia (Russia)

**Co-author:** FOR THE BM@N COLLABORATION

**Presenter:** Ms ALISHINA, Ksenia (Russia)

**Session Classification:** High Energy Physics

**Track Classification:** High Energy Physics