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ToF system of the BM@N experiment.

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The BM&N is designed as a spectrometer capable of detecting charged hadrons, electrons and photons in heavy-ion collisions in the energy range of the Nuclotron. To reach this goal the detector will include a precise tracking system and a high-performance particle identification system based on time-of-flight measurements. ToF system consist of two part: ToF400 and ToF700 which are located on 4 m and 7 m from target respectively. ToF700 wall will provide with the pion/kaon separation up to 3 GeV/c and proton/kaon separation up to 5 GeV/c in "high rate"region near to beam. ToF400 will provide identification of charged hadrons at intermediate momentum (0.1 –2.5 GeV/c) and large angles. In both case ToF system will based on multigap Resistivity Plate Chamber with time resolution better than 80 ps.
Result of R&D and beam test of mRPC for ToF400 will present in report. The construction of ToF400 wall, design of gas box for mRPC, and gas system are discussing.

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