

Implementation of task for calibration of TPC gas drift velocity

Thursday 2 November 2023 14:20 (15 minutes)

Obtaining proper event collision data from MPD TPC depends on determination of many working parameters. One of them is electrons drift velocity in gas that fills sensitive volume of the TPC. The drift velocity can vary during runs and changes due to environmental conditions like atmospheric pressure and temperature. Laser calibration system into sensitive volume of the TPC will provide data to calculate the drift velocity. This data also can help to correct errors of trigger delay. Implementation of this task should be also quite fast to provide the velocity online for TPC monitoring purposes.

Primary author: BYCHKOV, Alexander (LHEP)

Presenter: BYCHKOV, Alexander (LHEP)

Session Classification: Experimental Nuclear Physics

Track Classification: Experimental Nuclear Physics