Contribution ID: **100** Type: **Software programming (Java, 3D modelling, LabView, SCADA WinCC etc.)**

Optimalization of the gas distribution system for the MPD-TOF detector module

The MPD-TOF detector is a gas detector in which an optimized gas distribution system plays a key role. The main task of this system is to ensure an even, laminar flow of the working fluid throughout the detector volume. During the work, various variants of the gas distribution system were prepared inside the MPD-TOF detector module. Next, flow simulations were carried out for each variant using the CFD method. Based on the results obtained, the optimal option was selected.

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