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Adaptation of advanced regulators for gas system control Time of Flight detector in the NICA experimental complex.

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This project covers of implementation advanced gas control structure for Time of Flight (TOF) detector at Nuclotron-based Ion Collider fAcility (NICA) experiment.

The main part of work focuses on the adaptation of advanced Dynamic Matrix Control (DMC) regulators. The purpose of the control is to maintain the gas pressure at an appropriate level of overpressure relative to atmospheric pressure, provide flows that lead to three gas recirculation in the detector during the day and preserve the composition of the three gases mixture in required proportions.

The last part presents a modified scheme of the system, made in modular technology. A new approach in building control and measurement infrastructure.

Temat:

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