

Student's Zone 2019 of the NICA Project



Contribution ID: 91

Type: **Hardware assembling**

The prototype of an air based cooling system for the Slow Control System of the MPD-TOF detector

In order to keep RACKs clean of any dust and other particles, the decision has been made to hermetically close them off from the environment. This however can lead to overheating of electronic devices inside. Due to that, a special cooling system was designed. It consists of two sets of fans, two transducers (measuring temperature and humidity) and radiators. All the elements are connected to a computer with the usage of RS-485 wires and the MODBUS protocol. The main goal of this project was to prepare, assemble and install all of the aforementioned equipment.

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