

## Student's Zone 2020 of the NICA Project



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## Designing of cooling system for MPD-ITS Detector

MPD-ITS is one of the subdetector of MPD. It based of silicon detectors and produce a huge amount of heat. Also, it is located very close to MPD-TPC which is very sensitive to the temperature gradient. Due to this fact, the gradient of the temperature on the MPD-ITS has to be minimalized. To do that, cooling plans and cooling RACKs have to be located somewhere in the area of MPD. The task is to propose the cables and pipes routes and find the solution for locating cooling plans. Later on the work on cooling plans also can be developed.

**Primary author:** ROSLON, Krystian (WUT, JINR)

**Presenter:** ROSLON, Krystian (WUT, JINR)