

## Student's Zone 2018 of the NICA Project



Contribution ID: 28

Type: **Team for the Future of NICA Dubna 2018**

### StarterKit Topic 05: DIP Switch Interface

Reporting the topic of student internship (summer 2018)

Programs: Summer Students, Slow Control System, TeFeNica.

Project: NICA-MPD (Nuclotron-based Ion Collider fAcility-Multi-Purpose Detector)

Cluster Name: Sensors and Interfaces in Great Physical Experiments.

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Topic: Topic 5: Design, implementation and programming of the  
DIP Switch Interface

for the Slow Control System MPD-NICA,

on the NImyRIO and LabView platforms in Great Physical Experiments

#### Overview

The aim of the activity of Sensors and Interfaces in Great Physical Experiments are practical exercises allowing students to get to know, design and solve real problems resulting from the construction of electronic circuits and connecting them with real elements.

Most students can efficiently program simulations using computers, but their real creation can be a big problem.

Selected themes have been prepared combining a common structural feature: Interface for the Slow Control System MPD-NICA, on the NImyRIO and LabView platforms in Great Physical Experiments.

Topic 2 project, opens the group of exercises: Sensor - Interface - NImyRIO.

The next ones form a compact basis for the preparation for the Slow Control System.

Each proposed exercise will bring you independent work with advanced equipment and software. The document attached to each project (in .pdf format) contains a detailed description of your activities.

Good luck...

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**Session Classification:** TeFeNica-2018

**Track Classification:** Team for the Future of NICA