

WP2, Task 2.5: objectives, participants, tasks, organization of work

F. Guber

Task 2.5 - "Development and construction of ZDCs for NICA and CBM"

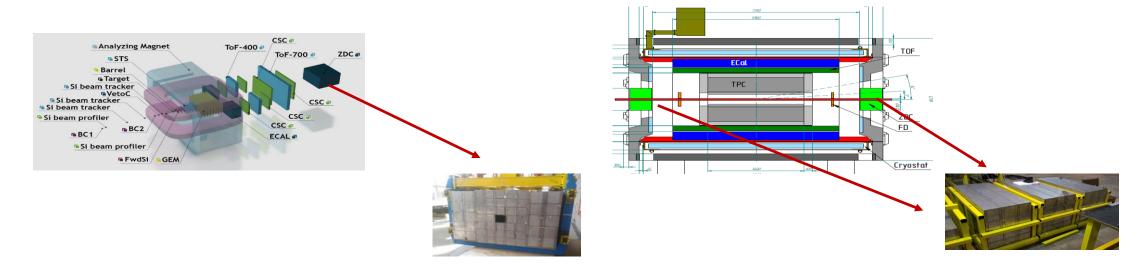
Participants - INR RAS (1 FTE), NPI CAS (2 FTE)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 871072

The main objectives of the task 2.5 within WP2:

The development and commissioning of the FHCal at the BM@N and MPD experiments at NICA



Development of the DCS for the FHCal at the BM@N and MPD. (O.Petukhov presentation).

- The development of calibration procedures and methods for centrality determination with the BM@N/MPD FHCal and CBM PSD. (Presentations of N.Karpushkin and V.Volkov).
- > R&D of carbon beam pipe for FHCal (NICA) and PSD (FAIR). (P.Chudoba presentatiom).
- > Tests of radiation hardness of SiPM, scintillators and beam pipe. (V.Mikhailov presentation).

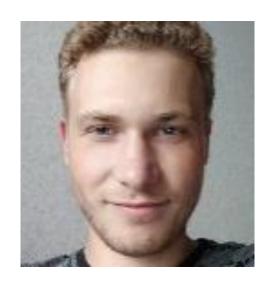
Task 2.5 deliverables

D2.9 Design of ZDC detector modules (M12) - Report

D2.10 ZDC detector modules constructed and tested (M48) - Report

INR @ task 2.5

INR participants of the task 2.5 – Nikolay Karpushkin, Oleg Petukhov, Vadim Volkov and Fedor Guber



Nikolay Karpushkin, PhD student



Oleg Petukhov researcher



Vadim Volkov, PhD student

INR tasks

- > Development of calibration methods with cosmic muons for the FHCal at BM@N/MPD and PSD at CBM.
- > Development of methods of centrality determination with the FHCal at the BM@N, MPD and CBM.
- > Development of the DCS for the FHCal at the BM@N and MPD.
- Participation in the BM@N FHCal and MPD FHCal commissioning.

NPI @ task 2.5

NPI participants of the task 2.5 – Petr Chudoba, Alexander Prozorov Vasily Mikhaylov,

Vassily Kushpil (senior), one engineer and Andrei Kugler



Alexander Prozorov, PhD student



Vasily Mikhaylov, PhD student



Petr Chudoba, Postdoc

NPI tasks:

- > Tests of radiation hardness of SiPM, scintillators and beam pipe.
- > Simulation of FHCal and PSD for reaction plane and centrality determination.
- > R&D of carbon beam pipe for FHCal (NICA) and PSD (FAIR).
- > The BM@N FHCal and MPD FHCal commissioning.

How to organize joint work between INR and NPI participants of the task 2.5?

- Regular vidyo meetings and face-to face workshops.
- Participation of both teams in the commissioning of the forward hadron calorimeters at the BM@N and MPD in JINR.
- Visits of INR participants at NPI and vice versa.
- Preparation of joint publications.

Thanks for your attention