

CREMLIN PLUS

Connecting Russian and European Measures
for Large-scale Research Infrastructures

Task 2.2 - Overview

Developments for the data
acquisition chain, for data
preprocessing and computing

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Task description

- The aim of the task is to develop and deliver the complete readout chain for BM@N , utilizing the synergy with the readout chain developed for CBM

Milestones/Deliverables

- There is one milestone associated:
 - MS8: Readout concept developed (24 months = 02.2022)
- There are two deliverables defined:
 - D2.3: Components of the STS data acquisition chain tested (24 months = 02.2022)
 - D2.4: Full functionality tests of the STS data acquisition chain (48 months = 02.2024)

Resources allocated

- Participating parties: JINR, FAIR, WUT
- Allocated human resources:
 - JINR: 2 FTE
 - FAIR: 2 FTE
 - WUT: 2 FTE

Subtasks to be fulfilled

- Development of the readout concept
- Preparation of the prototypes for the readout chain components
- Development of the firmware/software for the readout components and software for control and preliminary data analysis
- Testing of the prototype solution and iterative improvement of the concept and design
- Preparation of the documentation of the developed and tested design (MS8)
- Mass production, ordering of readout components
- Assembly of the readout chain
- Testing of the readout chain
- Preparation of the final documentation (final report)