

## Partner Report: GSI

D. Kresan, M. Al-Turany, C. Tacke OSSR Final Workshop

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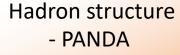
Atomic, applied and plasma physics -APPA

tamper shell

Astrophysics and nuclear structure - NUSTAR

1 TByte/s into online farms 35 PByte/year on disk

QCD phase transition - CBM









# Tasks performed within WP3

- GSI main contribution:
  - Task 3.2 ESFRI Software and Services Collection
  - Task 3.3 Common Approaches: Software and Services





## Matter and Technologies – Data Management and Analysis



GSI has initiated OSSR – DMA cooperation

DMA software projects are to be onboarded in **OSSR** 

GSI will take over curation of this segment





## Software onboarded

#### FairRoot

A simulation, reconstruction and analysis framework that is based on the ROOT system. The user can create simulated data and/or perform analysis with the same framework.

#### FairMQ

C++ Message Queuing Library and Framework.

#### DDS

The Dynamic Deployment System (DDS) - is a tool-set that automates and significantly simplifies a deployment of user defined processes and their dependencies on any resource management system using a given topology.

### R3BRoot (as first DMA project)

Software for simulations and data analysis of Reactions with Relativistic Radioactive Beams experiment at FAIR.







## What do we gain from OSSR?

- Establish modern collection-/link-site with one entry point for software
- Find solutions and environments for workflows rather than services
- Not only the software itself but also the environment that enables the scientific community to use/test the software, e.g. documentation, continuous integration and deployment services and evaluation data sets.





## What's next?

Open for new ideas, suggestions

•We are here to discuss...





Thank you.

