

W3. Facilitating Data Sharing

How to reconcile the data practices of facilities with the needs of information sharing policies of the multi-messenger landscape?

W4. Facilitating Joint Analysis

How can we best facilitate joint analysis of MM alerts/events?

Conveners:

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The New Era of
Multi-Messenger
Astrophysics

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multi-messenger.asterics2020.eu

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The poster features a central grid of ten hexagonal images showing various astronomical facilities and data. The Asterics logo and the European Commission logo are also present.

Facilitating Data Sharing

MW/MM information is of critical importance to a growing number of research topics.

- Observing coordination and data-sharing policies are not obvious because of political and managerial constraints
- Being able to access the data is key
- It is important that the data provided is science ready
- In some cases immediate data access is needed, but in many cases archival data will be required.
- The data issue has broad attention both in the European context with the European Open Science Cloud, and globally with the UN Open Universe initiative.

Facilitating Joint Analysis

Different scientific teams to bring together their observational resources, data, analysis and modeling tools, and expertise with different instruments, different data formats, different analysis protocols, and different cultures.

How to make the best of such a large pool ?

Discussion topics

- Data access
- Open Data / EOSC / FAIR
- Different facilities, different cultures, different approaches
- Multimessenger platform / broker concept
- Science Ready data / What data products are required?
- How do we compute data when multiple facilities involved
- Data policy, standards
- Availability of open source tools

Two presentations:

1. Towards a framework for multi-messenger data sharing

Marek Kowalski

2. AMPEL: a streaming data analysis framework

Ludwig Rauch