



ESCAPE

European Science Cluster of Astronomy &
Particle physics ESFRI research Infrastructures

GWS/Theory Science Platforms Discussion

What do we need to make simulations reusable and
accessible?



Science platform workshop

- Over the years simulation groups have disseminated their data using a variety of approaches (catalogues, archives, science gateways...)
- A Science Platform is an environment providing advanced functionality to analyze and process large and complex data-sets close to the data.
- SPs are extremely useful for simulations to:
 - disseminate,
 - inspect (visualization),
 - post-process
 - Analyze



Science platforms challenges

- What is necessary for users to reuse someone else's simulations? Do we want to?
- Sharing simulations means we want to provide access to data, computing, storage
- Authentication and Accounting: server-side computation not always available
- Data inhomogeneity: can we get common file formats?
- How can I use my own software? Can I deploy my container?



What can IVOA do for us?

- IVOA promotes standards.
- Where can we focus our attention?
 - Discovery: What simulation do you host?
 - Access: Where are the data? How can I “read” it?
 - Software:
 - Interoperability: Standard access libraries?
- We need to organize a new short focused SP workshop (sept/oct 2021)

