Registry and simulations

IVOA Interop meeting
Victoria, 2006/05/18
Registry WG

How do I register…?

- The datasets resulting from some (big) simulations (e.g. Cosmological simulations run on a GRID)

- A theoretical on-line service (theoretical spectrum service, galaxy evolution, …)

- My application/code/library that can be downloaded and run locally

Registration

- We need to have the proper metadata tags to register theoretical data/services in an efficient way (boxes that can be searched upon)

- The normalization of the actual contents of these tags is another issue (see semantics / VO vocabulary discussions)

- Currently: <Type>Simulation</Type> in RM document

Simulated datasets

- Catalogues, spectra, images : quite similar to existing VOResources for observed data, but :
  - Sky position optional
  - Describe how simulated data were obtained (add theoretical input parameters range?)
- Adapt resource types based on existing VO standards ? (e.g. SIA without positions)

On-line simulation service, software

- Need description of input/output parameters

- Describe platforms, versions, execution modes, …

- Re-use some of the CEAApplicationType ?

Discussions in the Theory IG

- Definition of use-cases

- Define vocabulary for describing simulations and their result
    - Name of the Code <Title>
    - Physical Process <Subject>?
    - Subject <Subject>
    - Type of algorithm
    - Algorithmic parameter <Param><UCD>
    - Result type <Format>
    - Result parameters <Param><UCD>

- Merge with existing ResourceMetadata