Simulation Output in the VO MODEL -Rahul Shetty

Currently, observers usually request simulations directly from theorists (and vice versa) for comparison.

Ideally, published simulations would be immediately available to anyone. The VO could be a host for simulation output, just as it is for observations.

Observation - Theory Comparison

Star Formation Taste-Testing: http://www.cfa.harvard.edu/~agoodman/tastetests/

Cosmological Simulations: http://governator.ucsc.edu/simulations/

Others: Millennium (http://www.mpa-garching.mpg.de/millennium/)

Galmerg: (http://galmer.obspm.fr/)

Star Formation Taste-Tests

- Site where comparisons between observations and simulations of star formation regions can be discussed.
- Possibly linked with CADAC: http://cadac.sdsc.edu/, where simulations will be hosted and tools are provided for analysis (Padoan, Norman, UCSD)
- Also, statistical tools used in analyses will be available (and discussed) here. e.g. Dendrograms (Goodman et al. 2009, Nature, 457, 7225, 63)

Cosmological Simulations

Galaxy interactions and evolution (Cox, Hernquist, et al.)

Comparison of SEDs, morphology, etc... (http://governator.ucsc.edu/simulations/)

Simulation Output in the VO

Websites/repositories are now providing access to some simulations. However, no standard format yet exists.

Enter the VO?