

# VO & Simulations

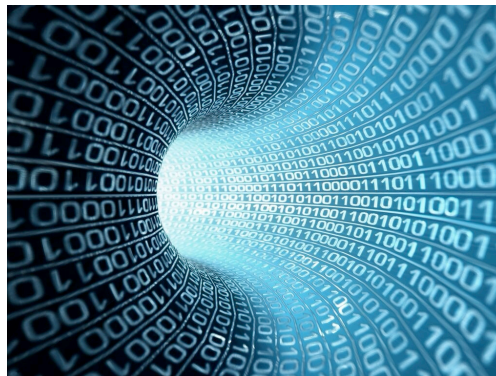
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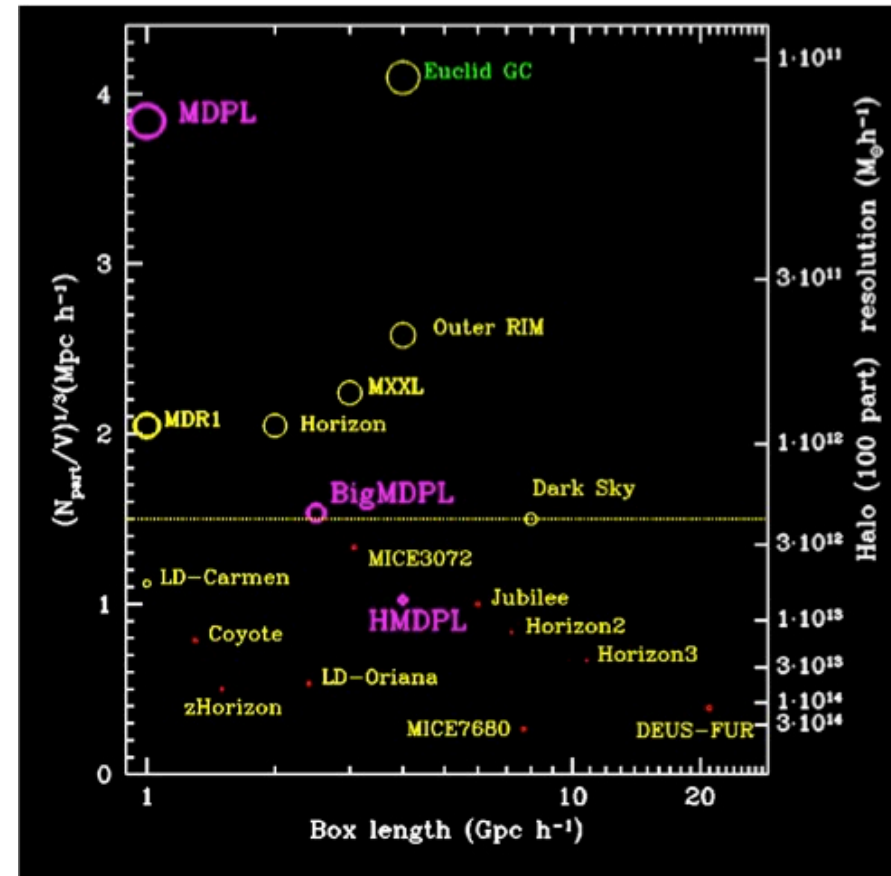
# VO for simulations: different opportunities

- digest the huge amount of data
- models accessible (Franck Le Petit's talk)
- simulation data to test analysis/de-biasing methods
- observational data accessible



## Huge amount of simulation data

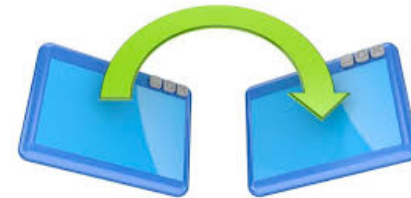
- Larger and Larger boxsize
- Higher and Higher resolution
- More and more time steps
- More and more sophisticated models
- More and more different types



Courtesy of G. Yepes

# Huge amount of simulation data

- More and more data to handle
- Data are not gathered in one place
- Lots of duplicates
- Complex transfer
- Difficult access
- Different databases



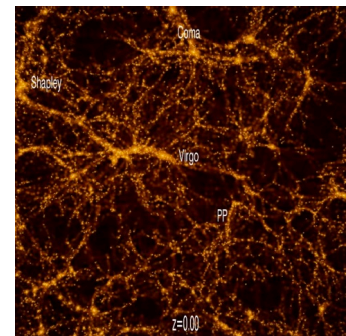
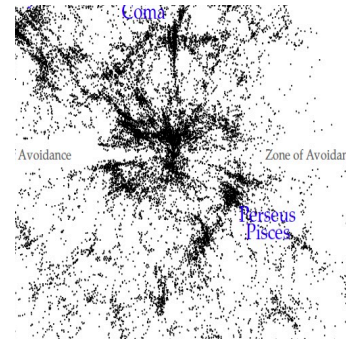
 **Solution = VO**

## Data access

- Aims: - compare the simulations (models)
  - compare simulations and observations to :
    - check the results obtained with models
    - test the methods to analyze/de-bias observations
    - particular study case (using resembling simulations)
- Problem: Simulation experts  $\neq$  Observers

### **Solution = VO:**

- *Large repository of observational/simulation data*
- *Data already analyzed and classified*
- *User friendly tools (even for non-observers // non simulation experts)*



## Conclusion: a two-sided gain

Simulations/Observations  
Simulation Experts/Observers

**Re-use of the observational/numerical data in new and novel ways  
(ASTERICS' goal)**

**Simulations become observations equal !  
Numerical codes become instruments equal !  
(roadmaps)**

# Thank you

# xièxie