MultiDark

Multimessenger Approach for Dark Matter Detection

MULTIDARK suite of simulations for BOSS studies

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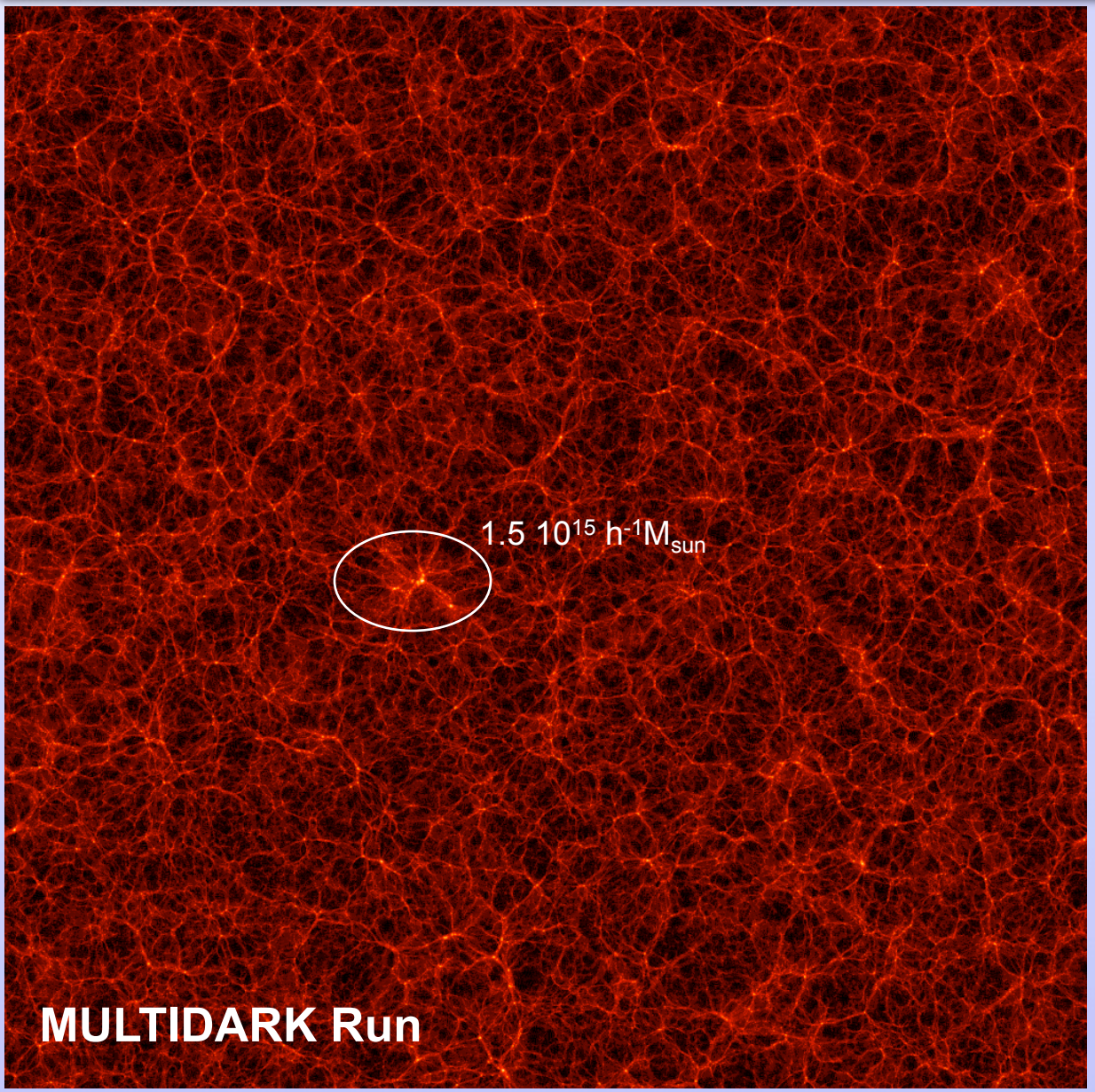
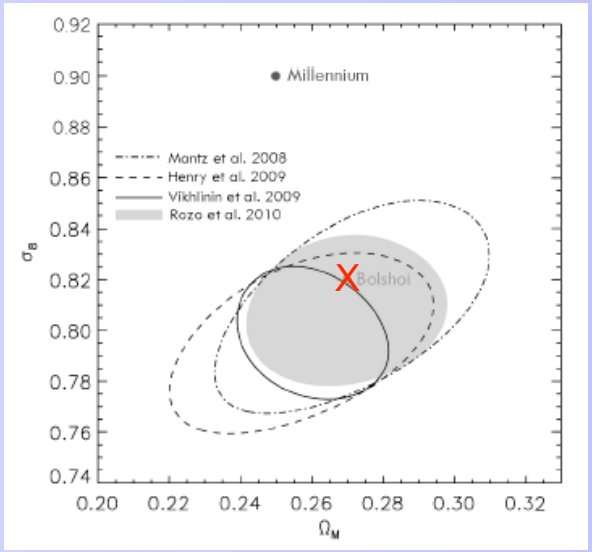


1Gpc/h



(ART code by A. Klypin)

L_{box}= 1000 h^{-1} Mpc

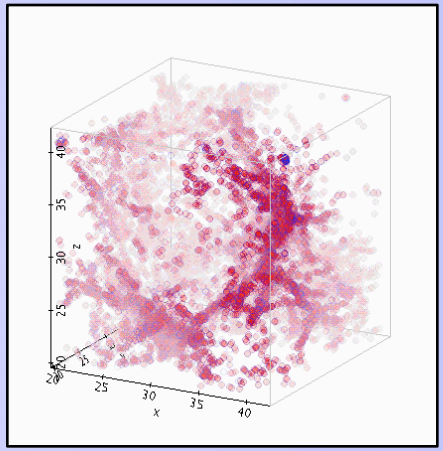
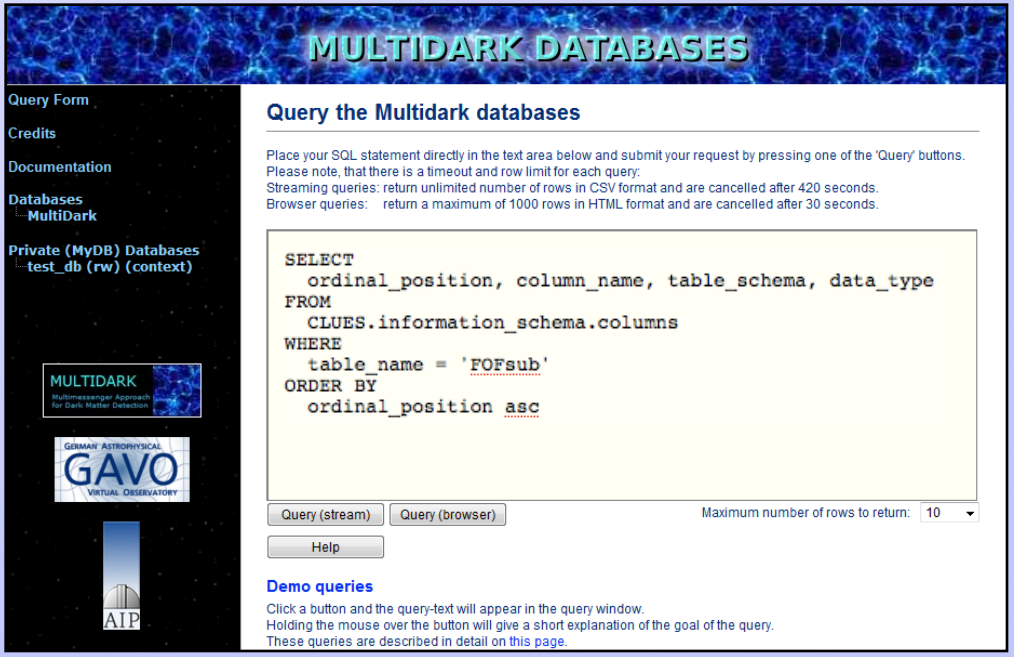
N_{part}= 2048^3

Force res.= 4 kpc comov.

M_{part}=8.77 10^9 h^{-1} M_{sun}

MULTIDARK Database

- collaboration with Astrophysical Institute Potsdam (AIP), supported by GAVO
- Database for MULTIDARK simulations will include:
  - halo + galaxy catalogues (positions, velocities, properties)
  - kinematic and density profiles
  - snapshots of simulations (particle selection)



- design similar to Millennium Simulation DB
- compliant to international VO (virtual observatory) standards
- Web interface:
  - direct access via SQL queries
  - store results of queries in own database (registered users)
  - history of previous queries
  - documentation