## Theory Interest Group

Cosmological simulations on science platforms

with GWS

Wed Nov 18, 20:30 UTC

## Theory needs special attention

- Hard to standardize simulations
  - Observational standards do not apply
- Heterogeneity of data products
  - not just photons at time T from direction V with energy E and polarization P
- No common sky
  - what to query?
- No common objects
  - what to compare, cross-match?

## Theory Interest Group

- Represents theorists to IVOA
- Represents IVOA to theorists
- 2 standards:
  - Simulation Data Model (SimDM):
    - Kinda registry for simulation products
  - Simulation Data Access Layer (SimDAL)
    - https://ivoa.net/documents/SimDAL/20170320/index.html
    - Discovery and retrieval of simulation products
- I think fair to say not much take up

## Session with GWS

- How can science platforms help in disseminating cosmological simulations
  - Focus on largest, hardest to retrieve, data products
- Talks:
  - Bridget Falck
  - Simon O'Toole
  - Stefano Russo
- Discussion
  - Use cases for publishing simulations on science platforms
    - link to observational surveys
  - Maybe: Standard framework for publishing (python) libraries for accessing specific simulations (ala astroquery)
    - E.g. yt
- With GWS: 0.5 day workshop in ~Feb to make some plans