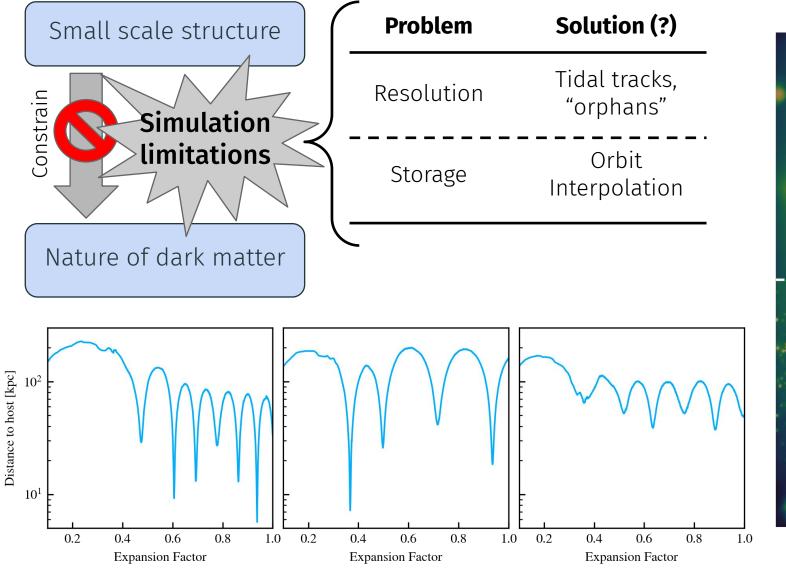
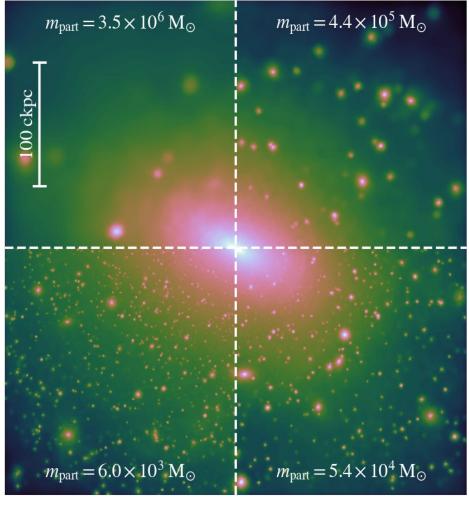
Addressing prediction limitations in small scale structures.

Victor Forouhar Moreno, Carlos Frenk, Shaun Cole & Alejandro Benitez-Llambay.







Planetary nebulae In Cosmological Simulations

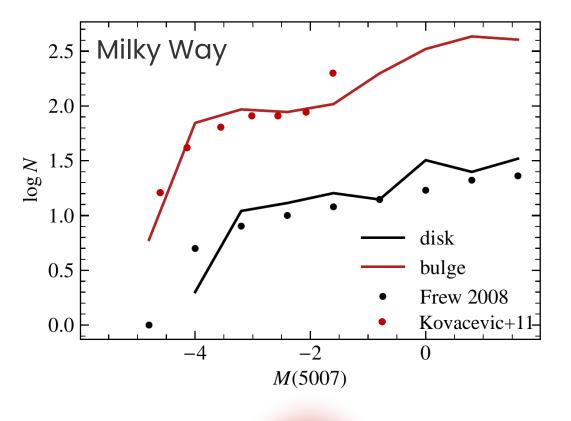


Planetary Nebula Population

Stellar mass

[OIII] λ 5007 intensity







2 kpc radius

Lucas M. Valenzuela

Universitäts-Sternwarte München

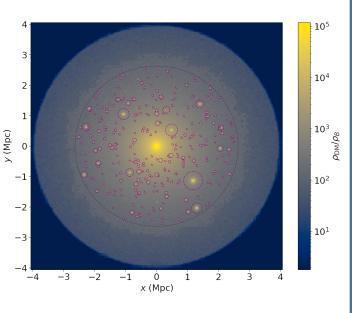
Full reproduction of observed PNe properties

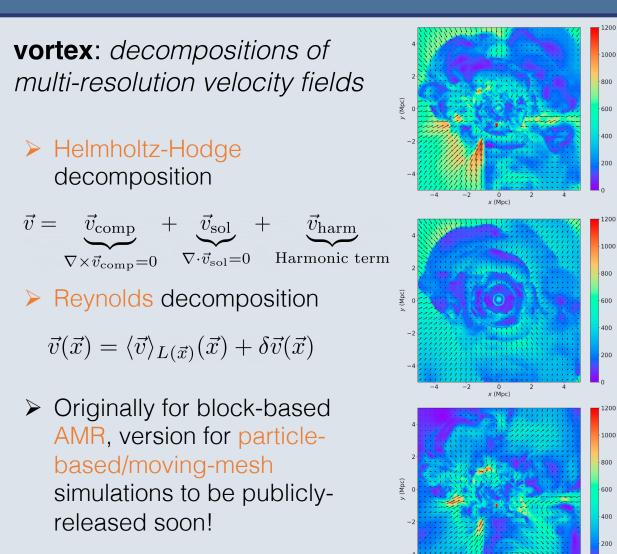
The public codes ASOHF and vortex for the post-processing of cosmological simulations

David Vallés-Pérez, Susana Planelles & Vicent Quilis Universitat de València

ASOHF: a lightweight DM halo + galaxy finder

- Based on the SO paradigm
- Physically-motivated definition of substructures
- Identifies galaxies as their own independent objects
- OMP parallelism + domain decomposition (either sequential or concurrent)
- Low memory footprint, good scaling, no additional libraries required





x (Mpc)

