How do galaxies distribute in DM halos?
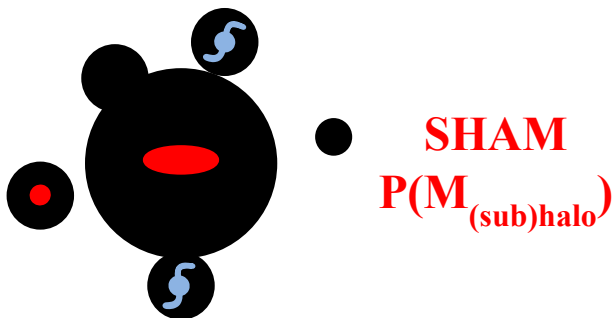


**SHAM**
$$P(M_{(sub)halo})$$

Fig 1. The principle of the Subhalo Abundance Matching

# Courses and Research

- ❏ Machine Learning & Parallel Programming & French
- ❏ single-tracer SHAM on r>5Mpc/h
  - ❏ multipoles: degeneracy still exists (index cut, void 2pcf, bispectrum tried)
  - ❏ projected 2pcf:
  - ❏ in different zbins
- ❏ SHAM matches CP-weighted 2pcf on r<5Mpc/h instead of PIP-weighted 2pcf
- ❏ HOD for DESI 1% survey
- ❏ Another project that relates to the dissertation