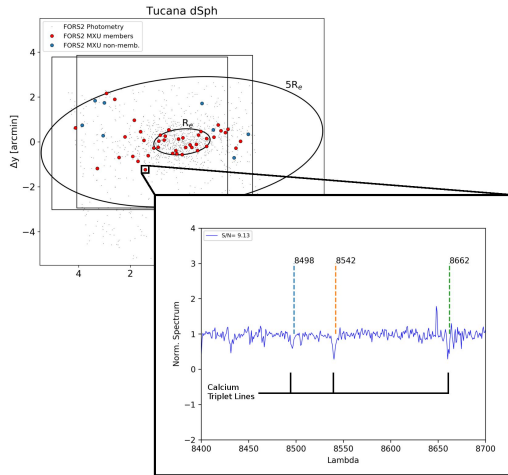




Our Local Group dwarfs



Cetus + Tucana dwarf spheroidals;
Aquarius + Phoenix transition type

Advantage: isolated → minimal environmental interaction; window onto the intrinsic evolutionary processes of dwarf galaxies

Kinematic analysis

Cetus and Tucana dSphs:

- Mainly dispersion-supported
- No evidences of internal rotation
- σ_v different from literature but in line with similar luminous dwarfs

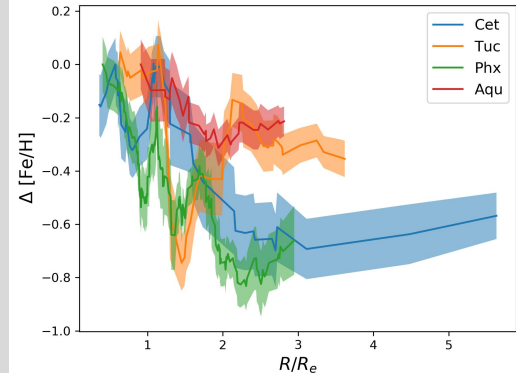
[Taibi et al. (2018); Taibi et al. (in prep.)]

Phoenix and Aquarius dTrs: Peculiar internal motions

Phoenix: Prolate stellar rotation
→ accretion of a smaller system ?
[Kacharov et al. (2017)]

Aquarius: Counter-rotating wrt HI
→ recently accreted gas ?
[Hermosa-Muñoz, Taibi et al. (sub.)]

Chemical analysis



Presence of radial metallicity gradient in our isolated dwarfs

Akin to MW satellites: internal effects rather than the environment played an important role in shaping their chemical properties