

Ultra-Compact High Velocity Clouds as Gas-Rich Dwarf Galaxies

Yakov Faerman
Tel Aviv University

Model physics

Gas clouds in hydrostatic equilibrium in low-mass DM halos, irradiated by the metagalactic radiation

What is this good for?

- 👁 Predict distances to the UCHVCs (currently unknown) using 21 cm observations
- 👁 Estimate properties of the DM halos of known gas-rich dwarfs (Leo T and Leo P)
- 👁 Constrain CGM / IGM properties

Furthermore, gas-rich low-mass halos can also be very useful in studying the nature of dark matter

