





Is DM measurable in our solar system?

Big Puzzle: What is Dark Matter?

- Two possible flavors for Dark Matter:
- Possibility 1. MACHOs
- <u>Massive Compact Halo Objects</u>
- Very faint, actual things; baryonic matter
- Brown dwarfs, black holes, black dwarfs ... etc.
- May be floating through the galaxy halo unnoticed





Possibility 2. WIMPs

- <u>Weakly Interacting Massive Particles</u>
- <u>Non-baryonic</u> → subatomic particle (possibly made in Big Bang?)
- <u>Neutrinos</u>? probably not.... they move too fast and cannot be collected into stable galaxy halos
- Slower (unknown) particles: "<u>Cold Dark Matter</u>" ... BIG SEARCHES (and thinking) underway













