

Modified Newtonian Dynamics, A possible alternative to the dark matter hypothesis.

Thomas Rot

- Part 1: Why do we need a new gravitation theory?
 - Introduction
 - Pioneer Anomaly
 - Rotation curve problem
 - Newtonian mechanics
- Part 2: Does MOND solve our problems?
 - MOND, as a theory
 - Flattening of the rotation curves for model galaxies
 - Computing the rotation curves
- Part 3: Cosmological implications and conclusion