Galaxies

(PHYS 601 Handout)

NORMAL SPIRALS
Sb Sc Sc

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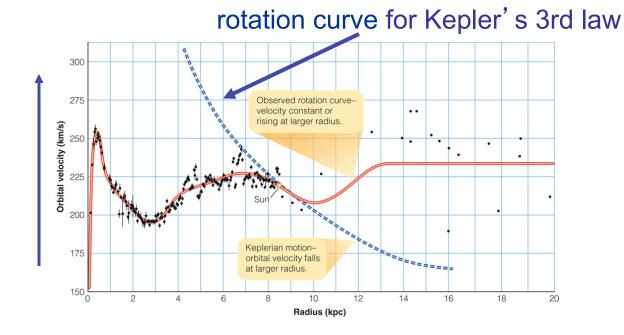
3 Types of Galaxies:

- *Spirals
- *Ellipticals
- *Irregulars

Distant galaxies are moving away from our Milky Way, with a recession velocity, v_r , proportional to their distance d:



Hubble's law



 $M = R^3/P^2$ and

 $V \sim 1/R^{1/2}$

Model Universes

Big Bang: 2 Key Pieces of Evidence

- Galaxies Red Shifts
- 3K Microwave Background

Cosmological Principle

- Homogeneity
- Isotropy
- Universality

Universe's geometry depends on density, ρ

