

1 : HISTORY & PRELIMINARIES

(1.1) Introduction

(1.2) Discovering Galaxies: Ours & Others

- (a) Early Aims
- (b) Before 1850 : Search & Discovery
- (c) 1850 - 1925 : The Great Debates
- (d) 1925 - 1950 : Expanding Horizons
- (e) 1950 - Present : Modern Developments

(1.3) Preliminaries

- (a) The Big Picture
- (b) Galaxies are Multicomponent Systems
- (c) The Milky Way - A Typical Large Spiral
- (d) A Wide Variety of Size, Mass & Form
- (e) Useful Units
- (f) Magnitude Systems & Surface Brightness
- (g) Mass to Light Ratios
- (h) Gas in and Between Galaxies
- (i) Collisionless Components
- (j) Thermal & Fluid Character of Stellar Dynamics
- (k) Support : Rotation vs Dispersion
- (l) Dissipationless vs Dissipational Collapse
- (m) Concordance Cosmology