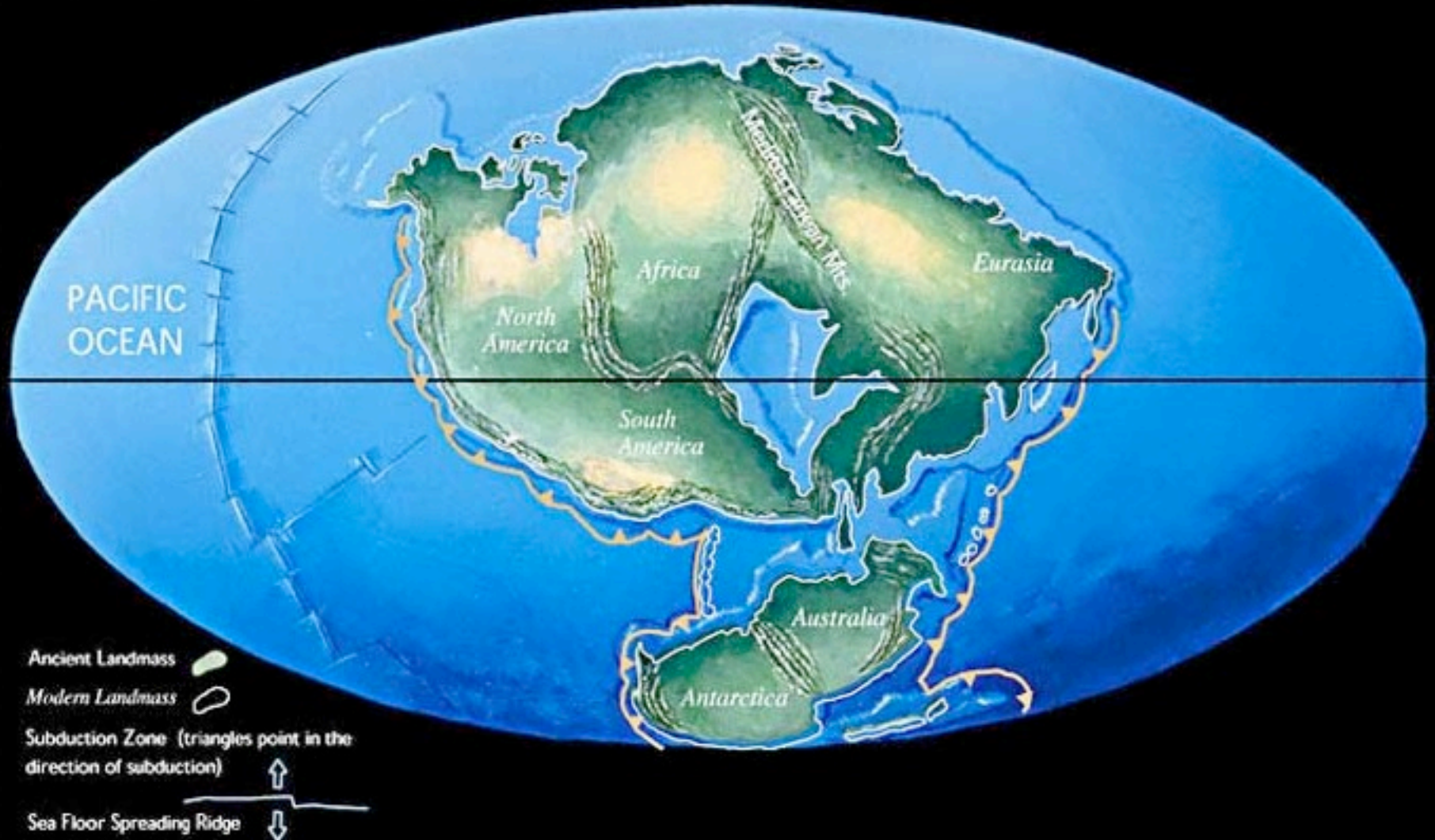
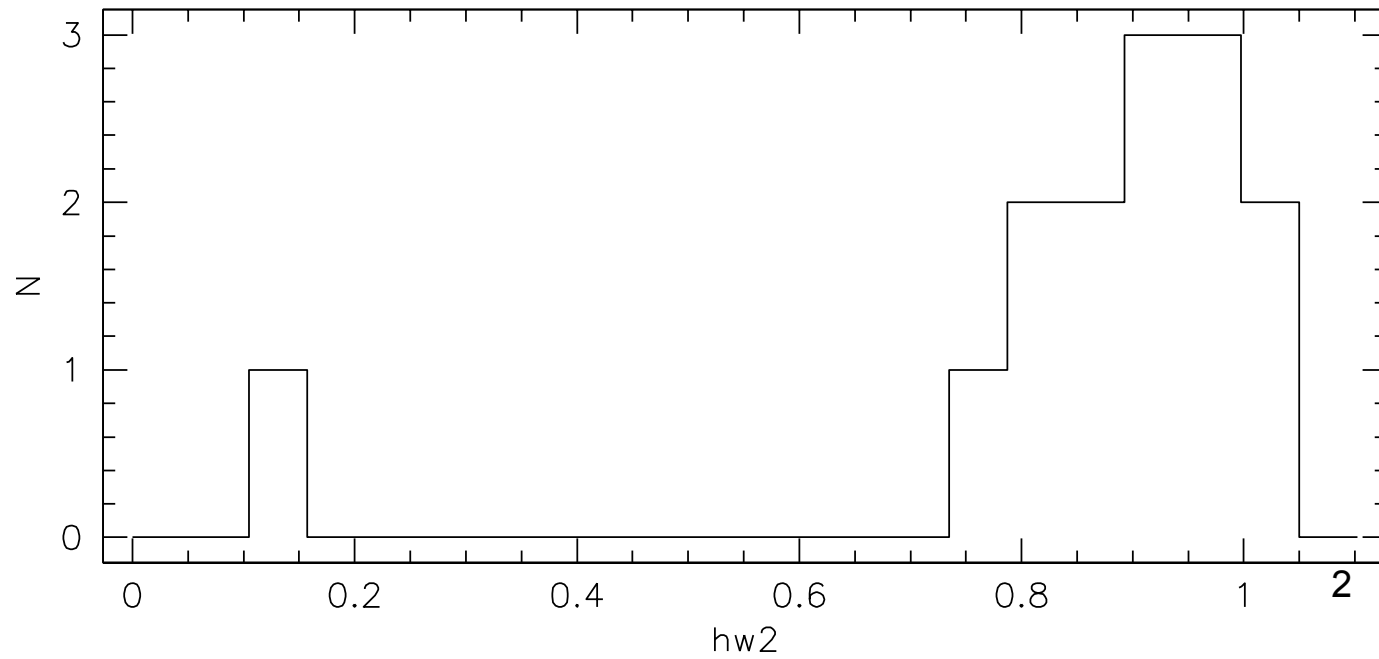
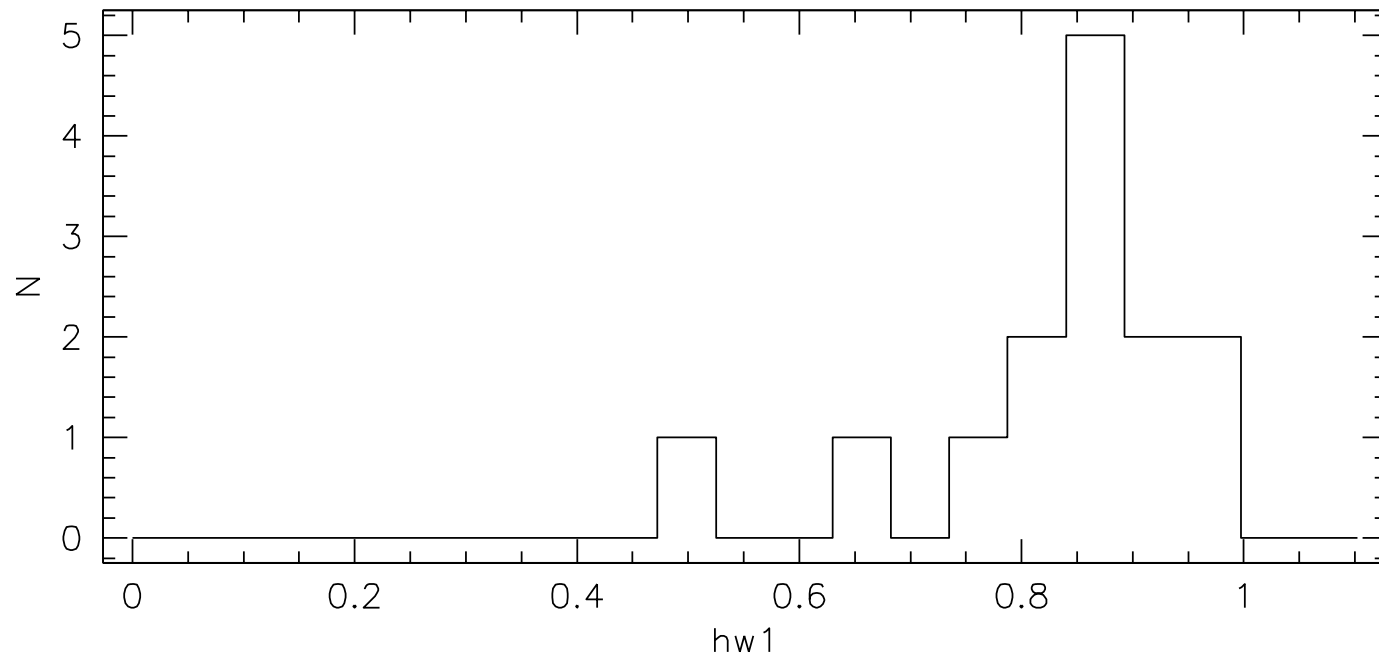
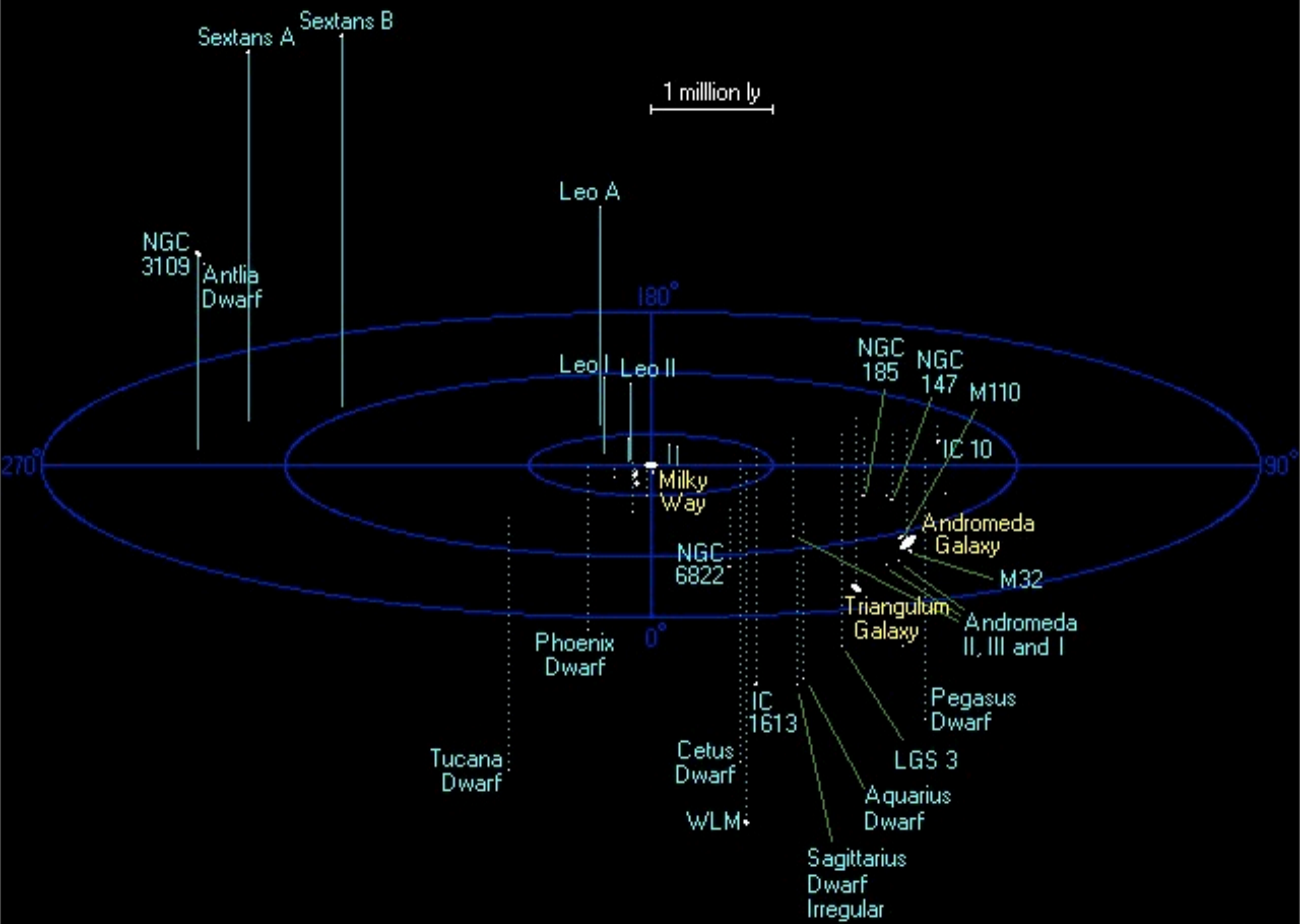


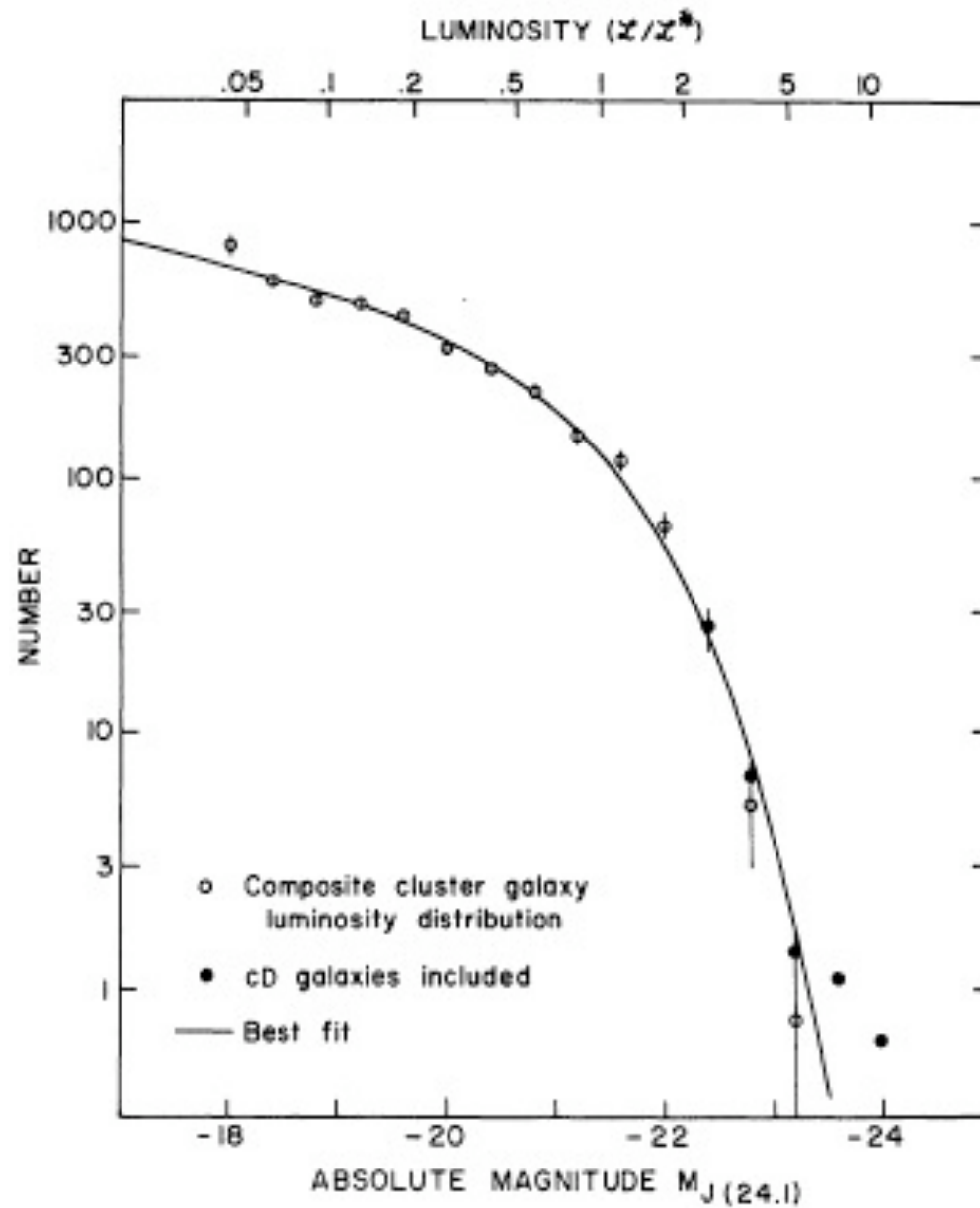
Astro 220: Galaxies and cosmology

Future World + 250 Ma



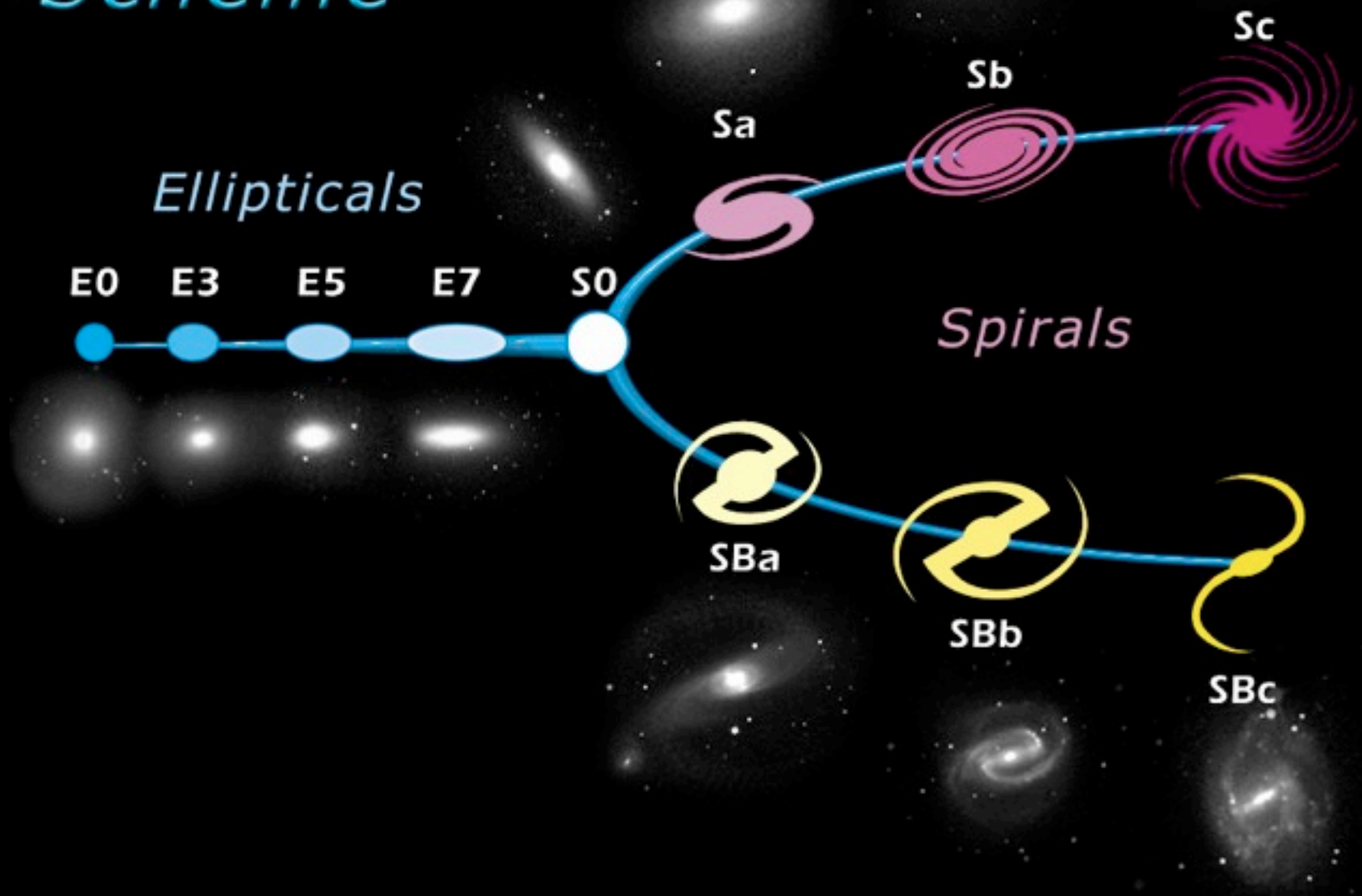




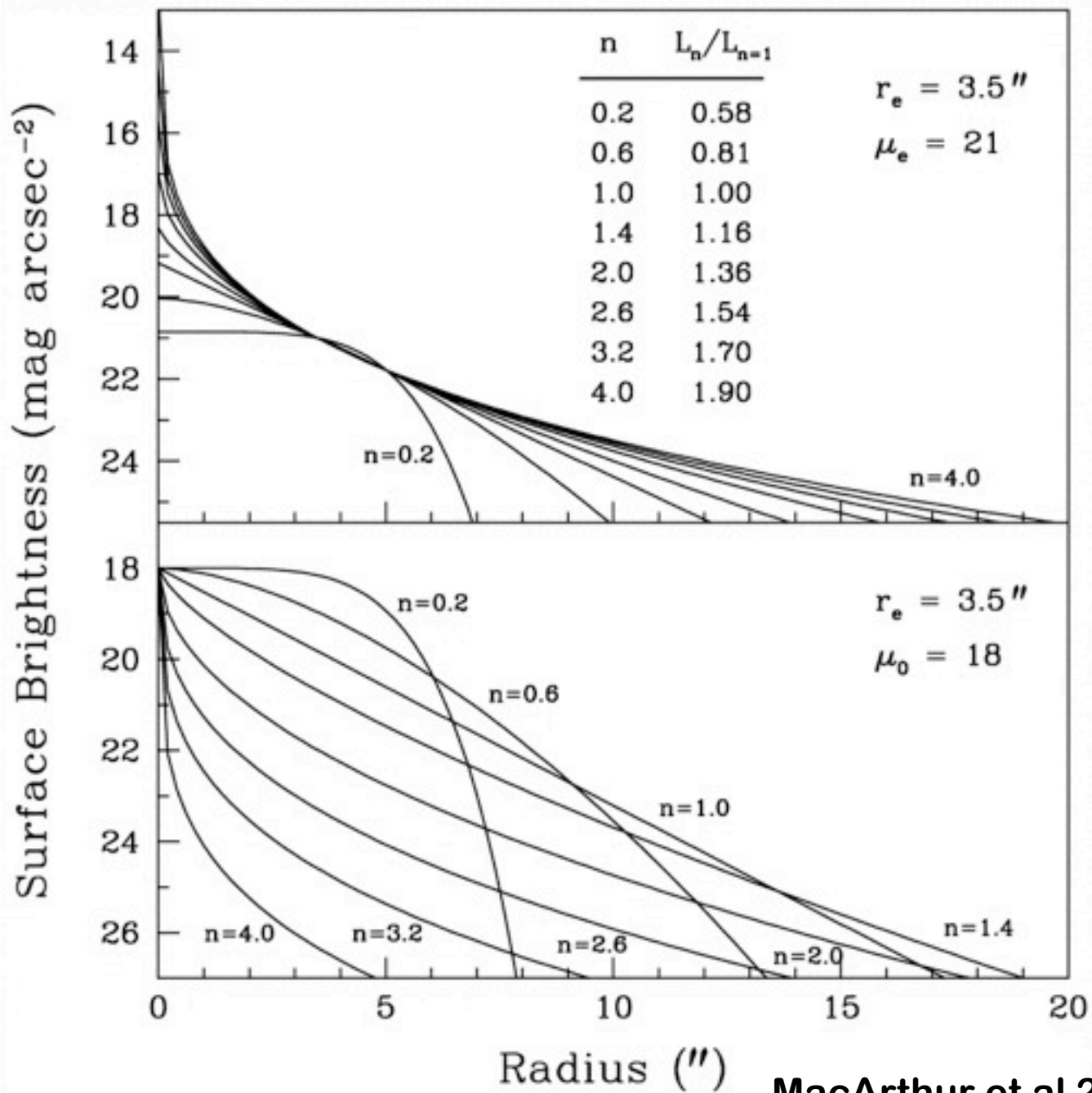


Schechter (1976)

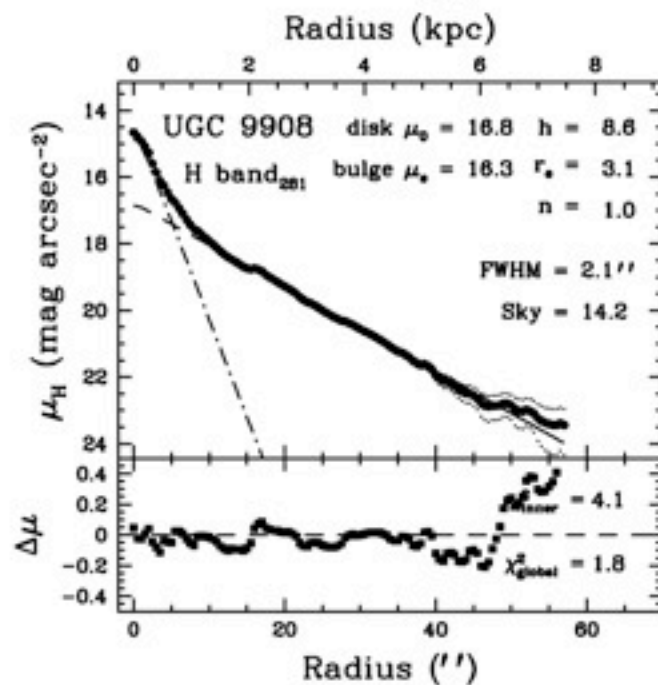
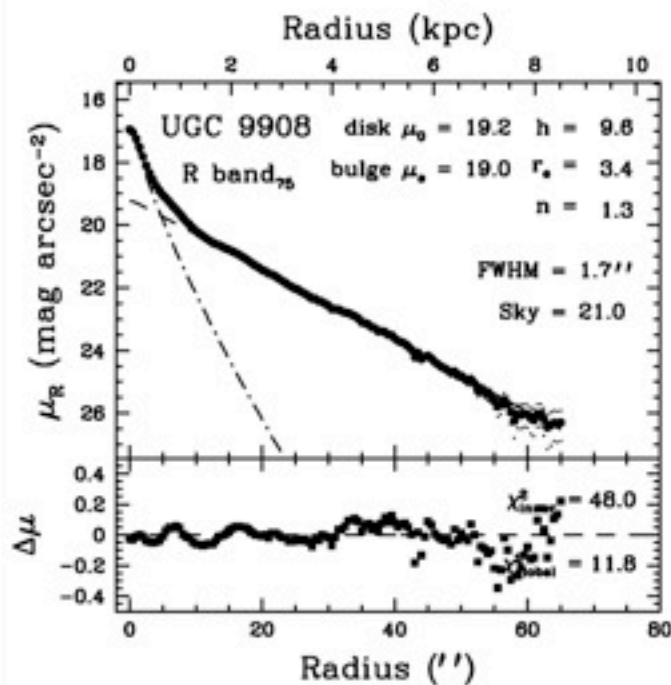
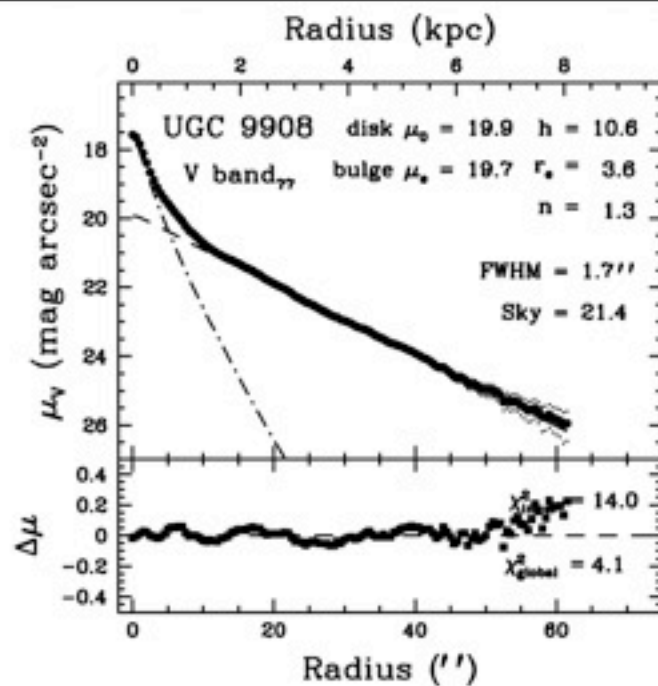
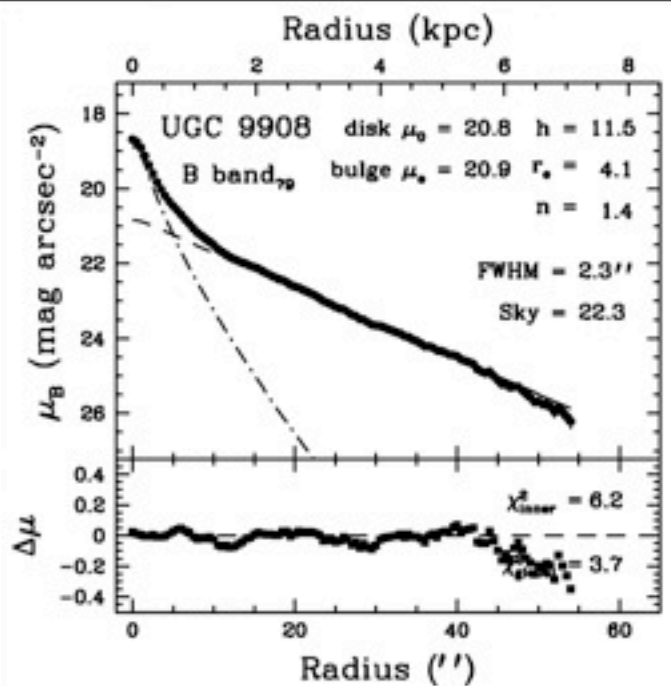
Edwin Hubble's Classification Scheme







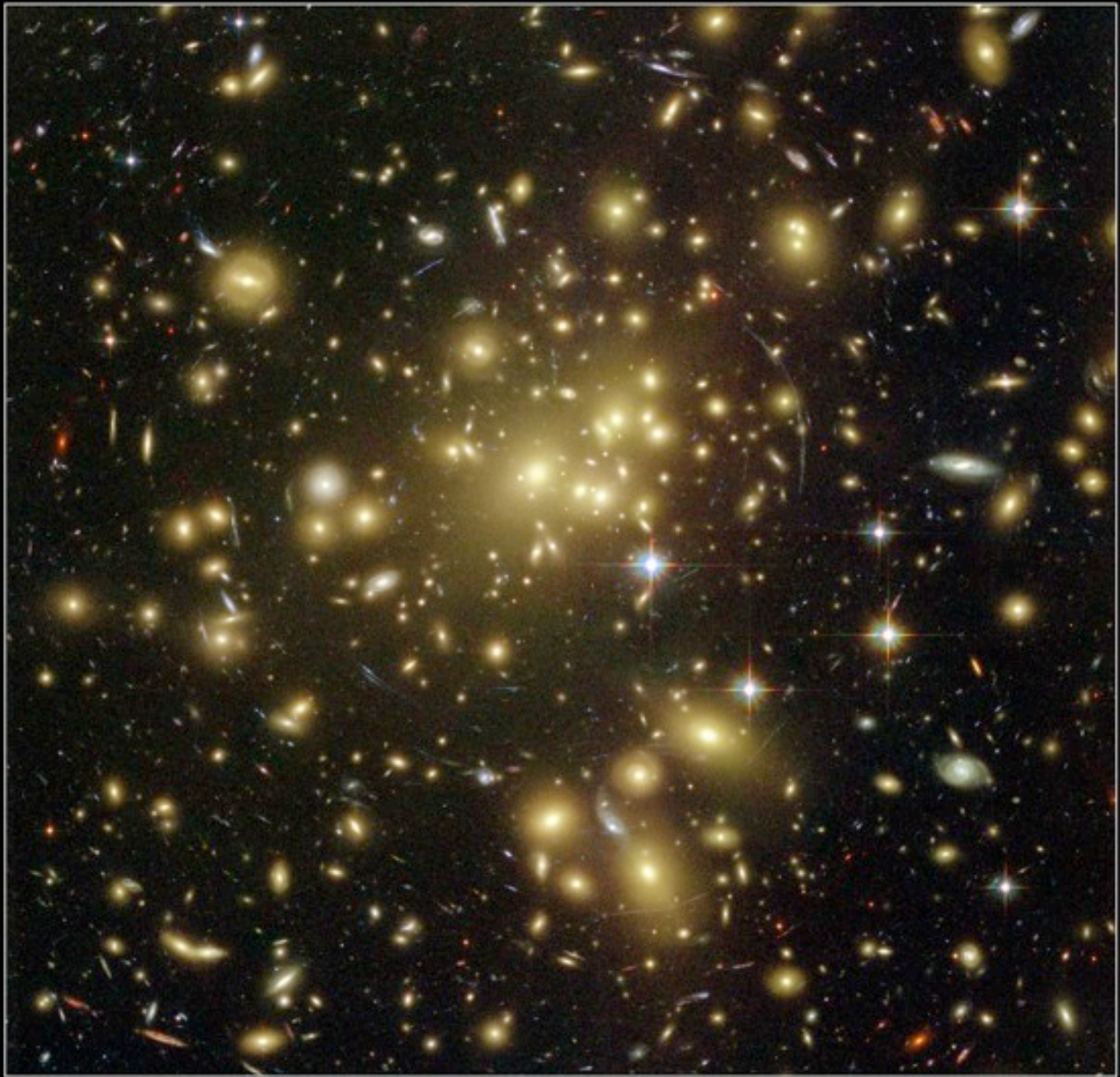
MacArthur et al 2003



MacArthur
 et al 2003

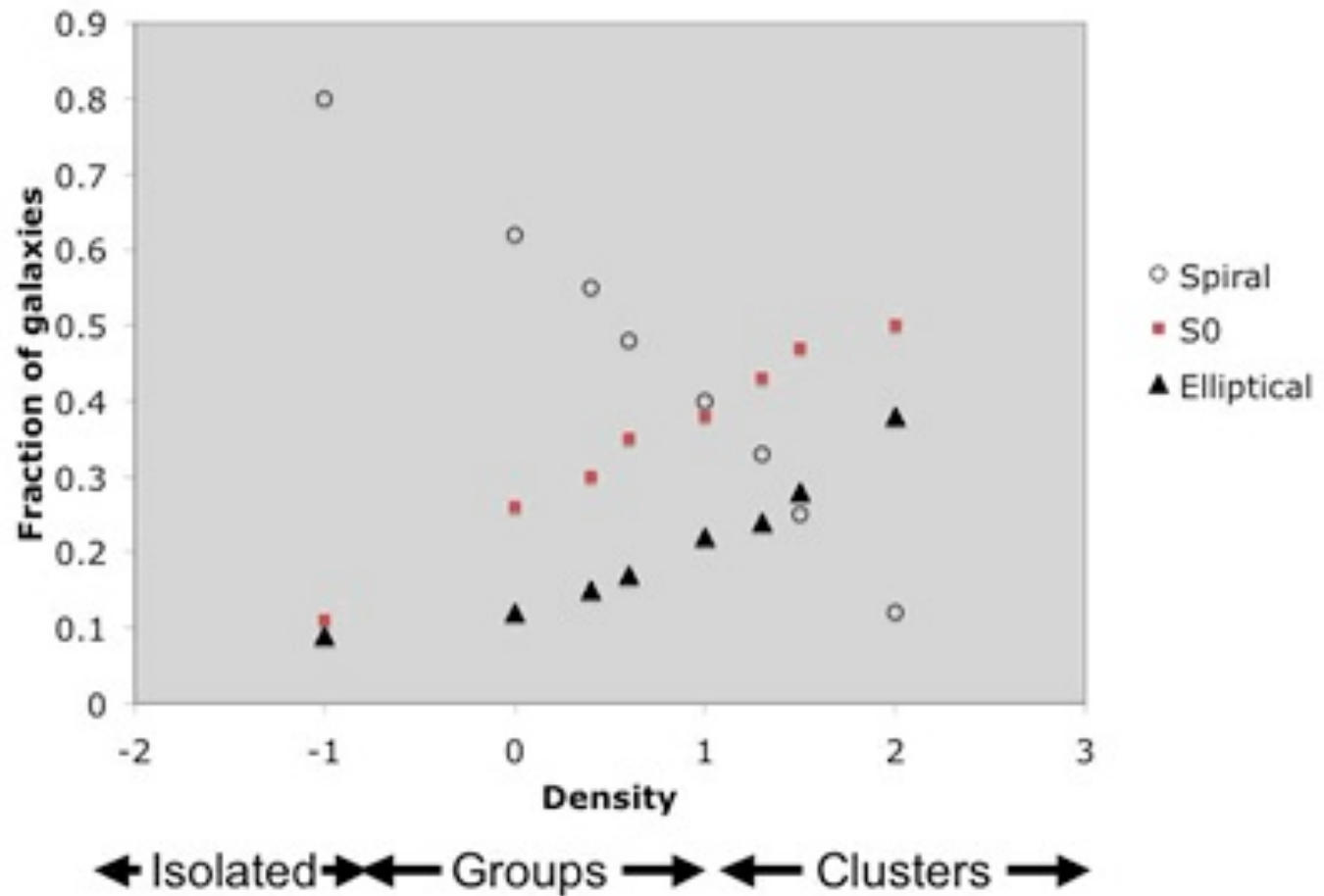


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Morphology density relation



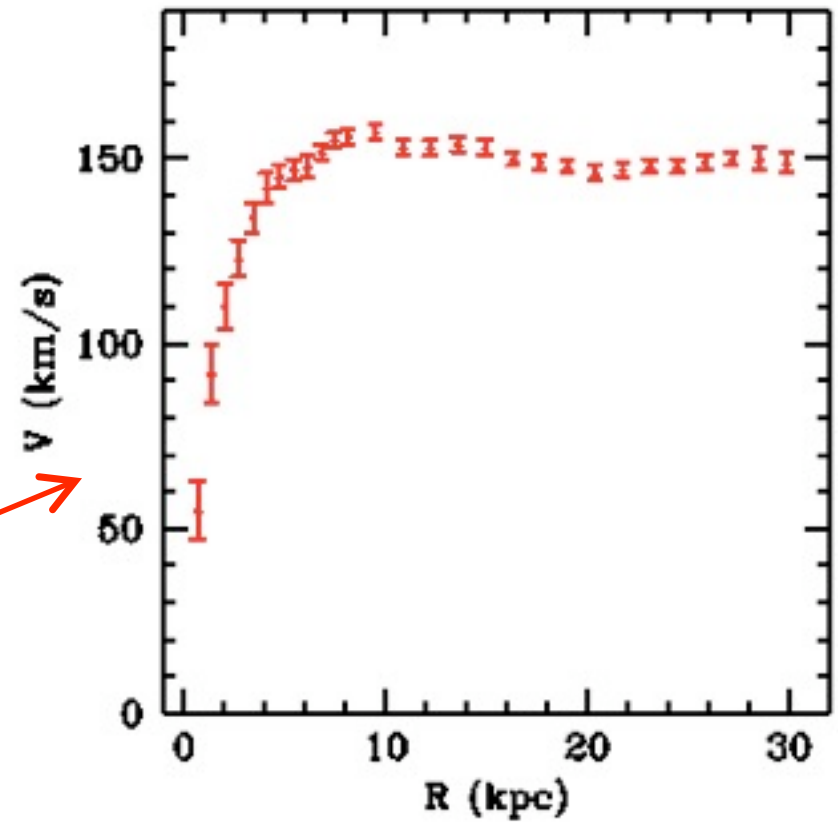
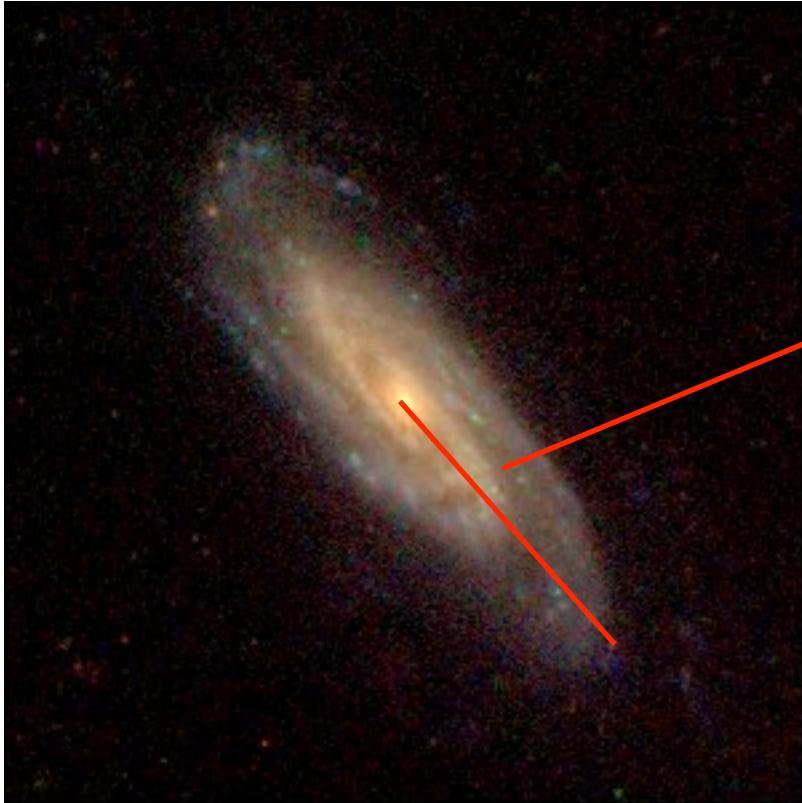


Spirals: Tully-Fisher relation

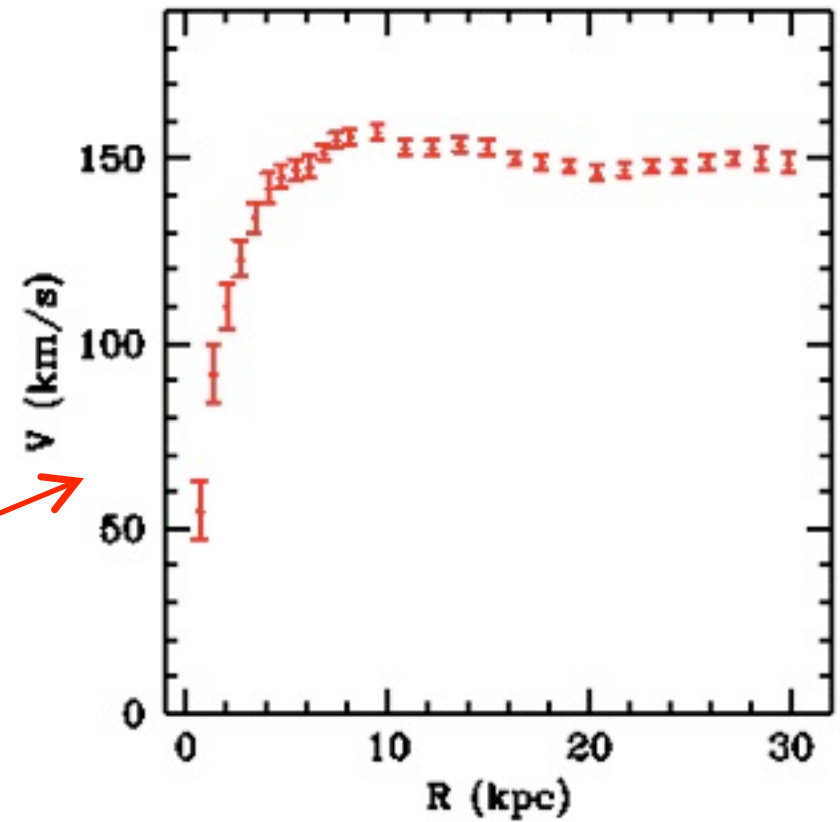
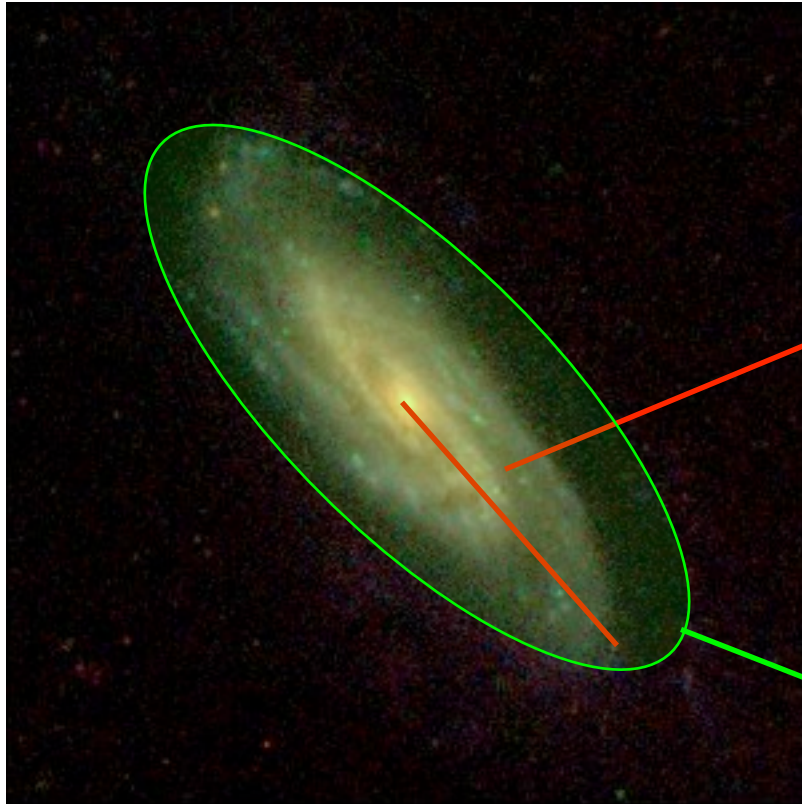


Ellipticals: Fundamental Plane

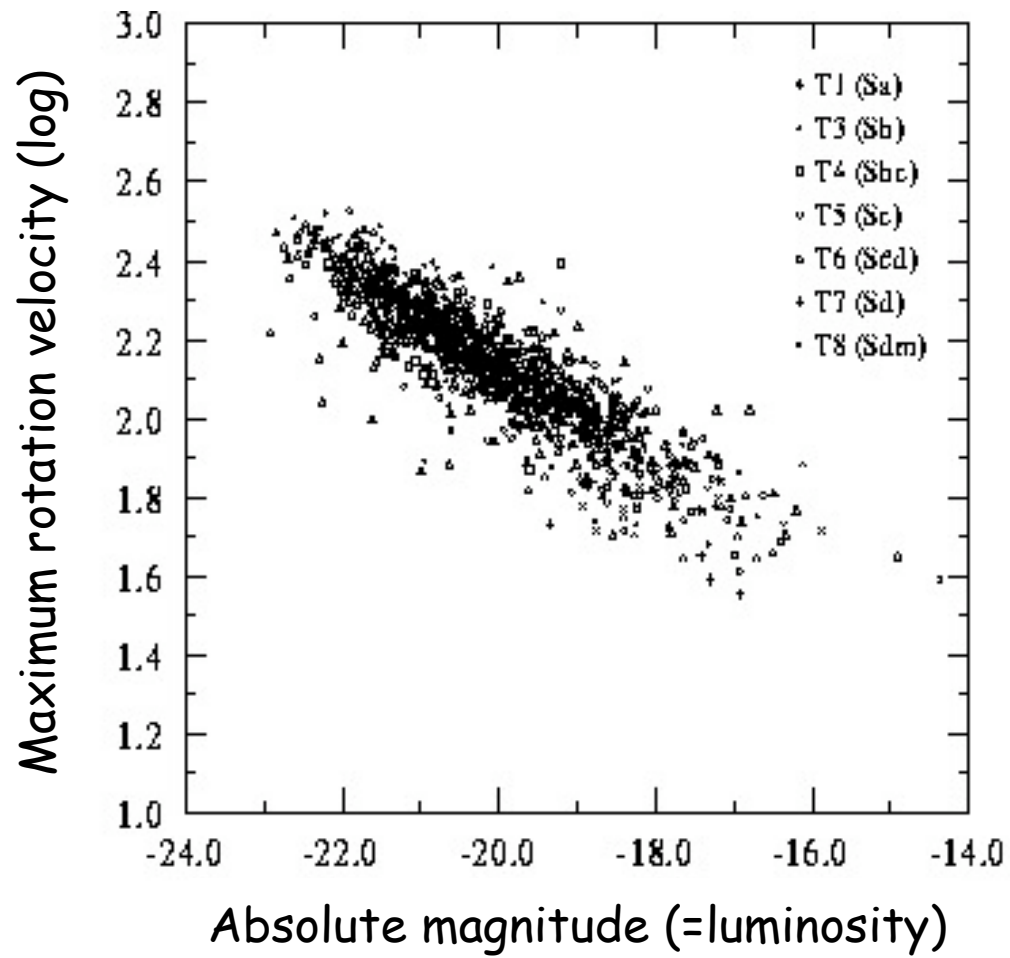


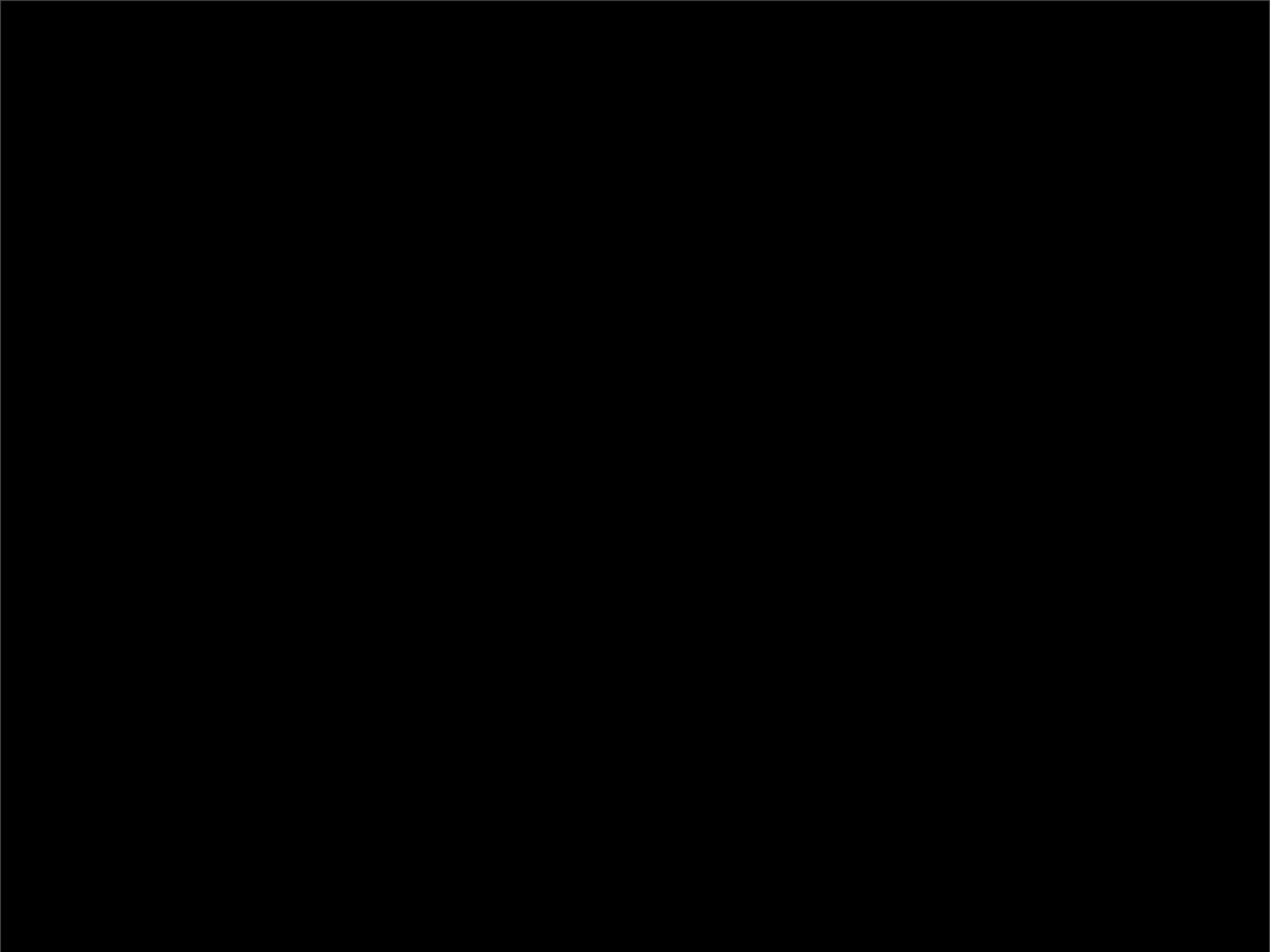


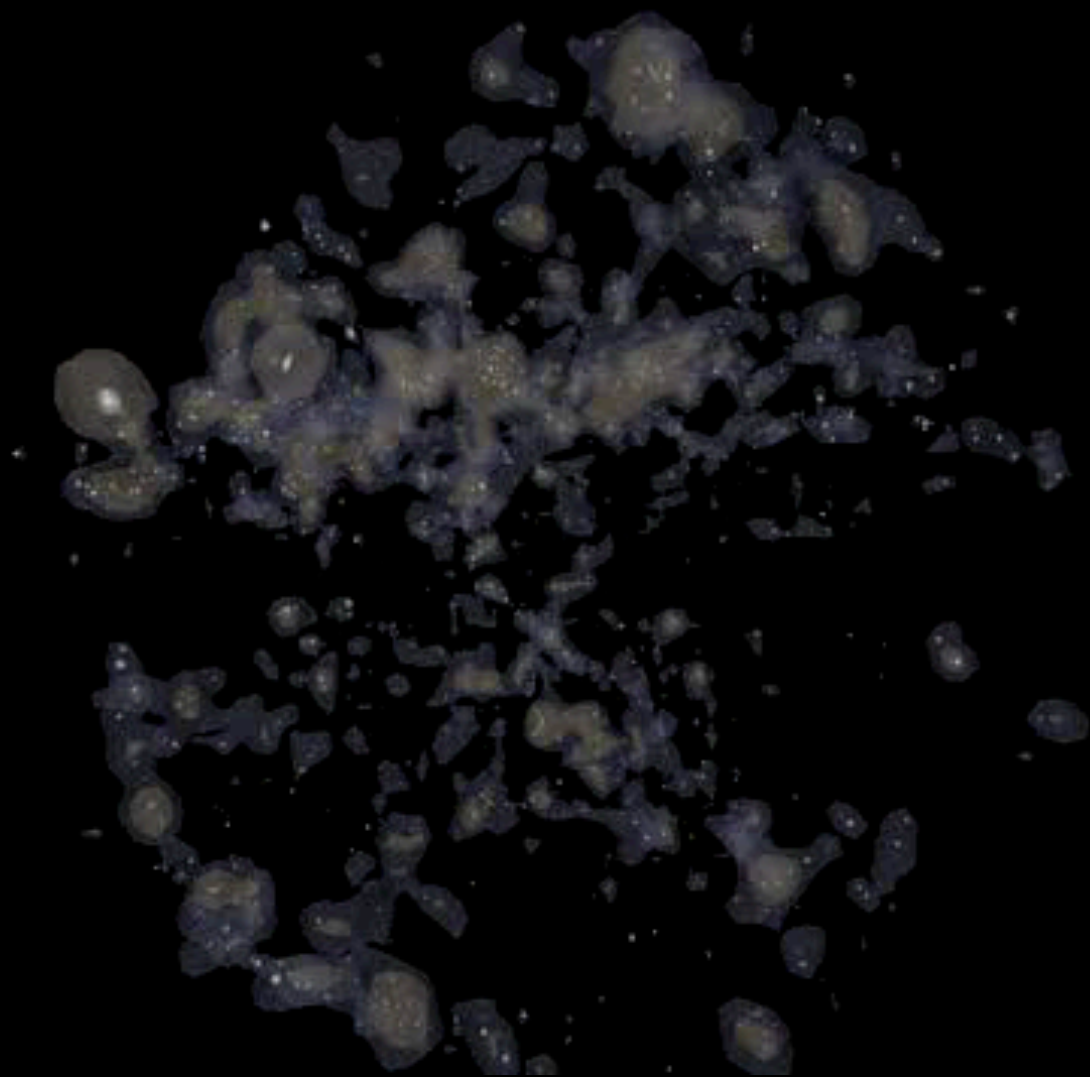
Rotation curve: gives maximum rotation velocity $V(\text{max})$

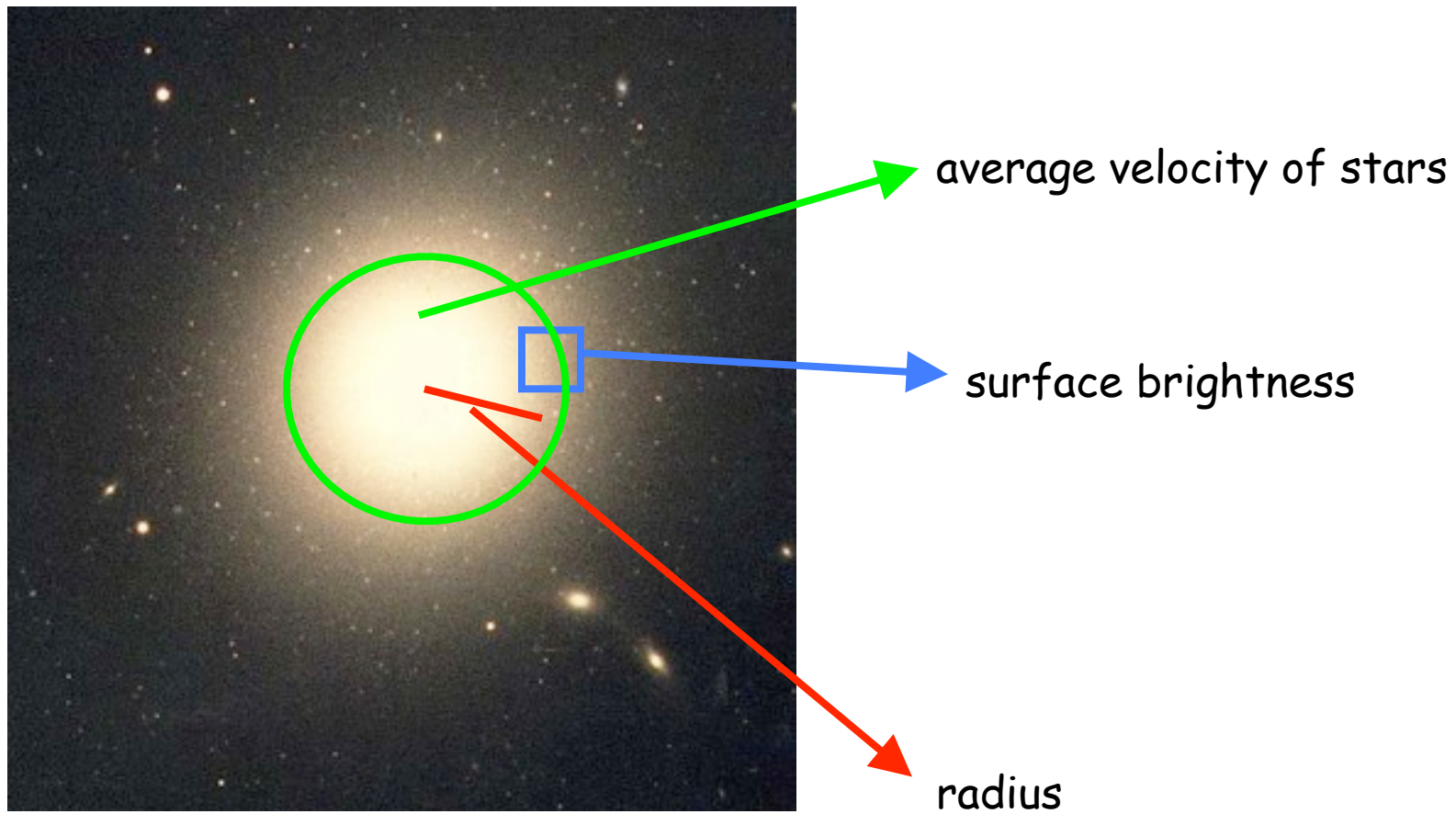


Apparent brightness +
distance gives luminosity









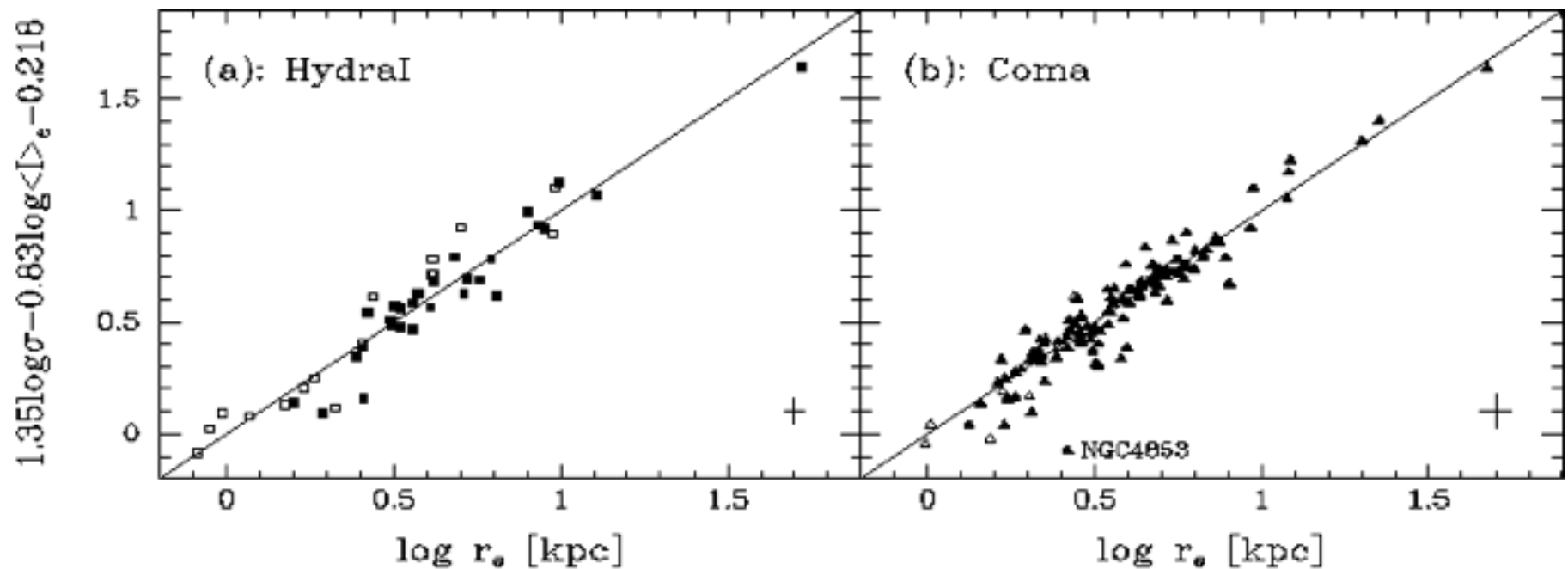


Figure 7.3: The Fundamental Plane in Coma, Ell (7.7) galaxies on a plane, Data symbols as in Fig. 7.1.
called "Fundamental Plane"