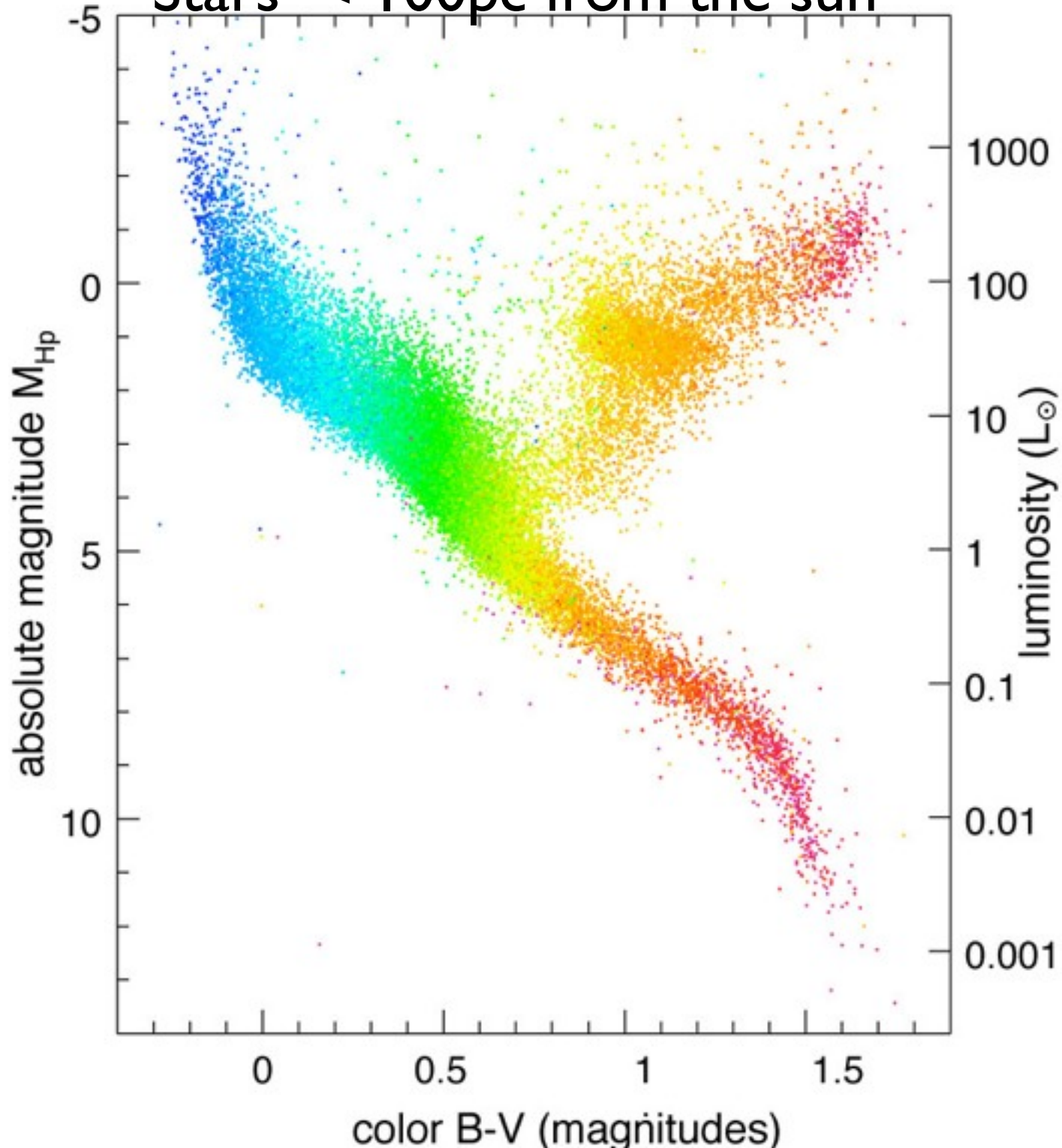


# Luminosity functions

*Homework due*

# Stars < 100pc from the sun



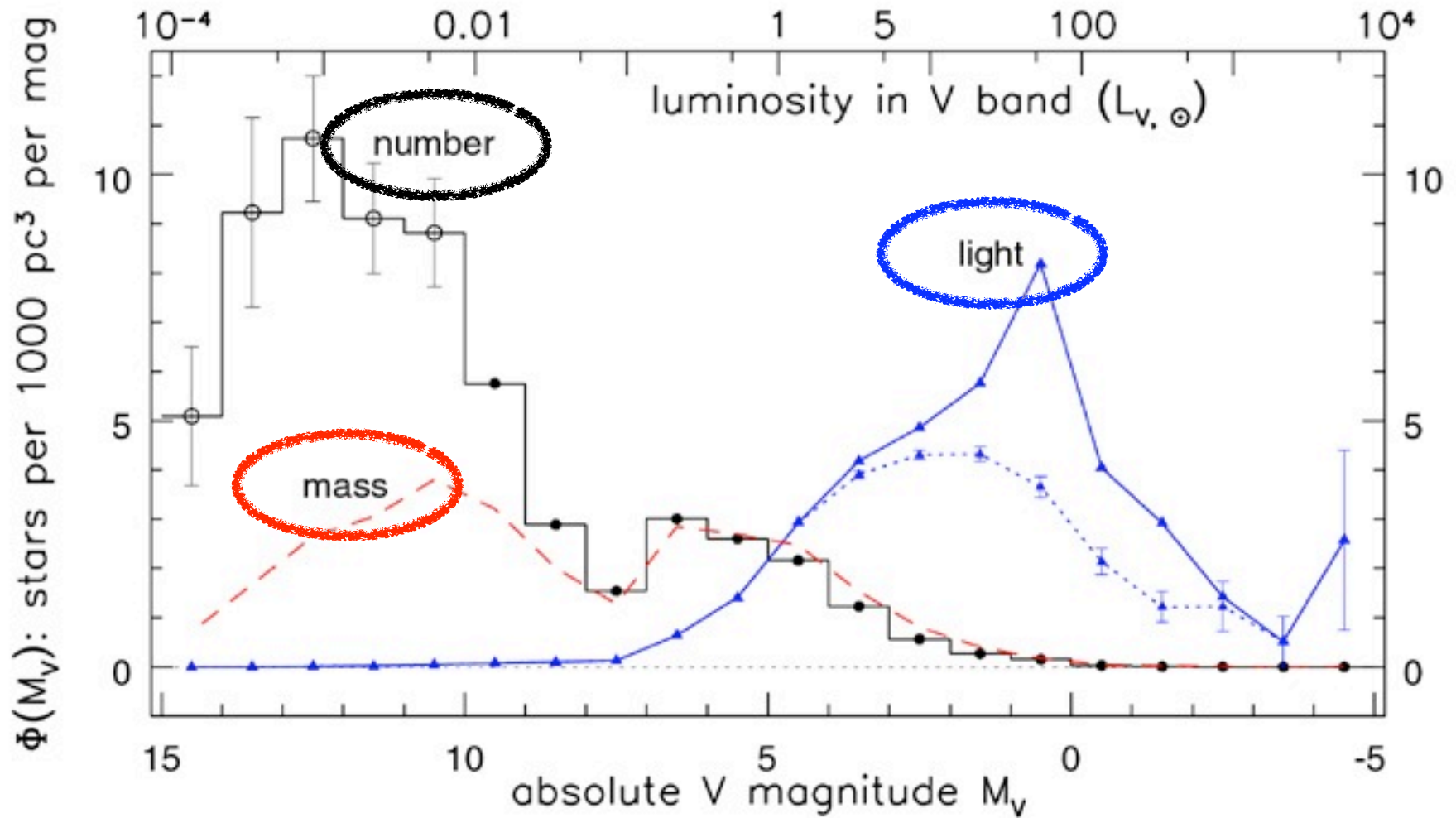


Fig 2.3 'Galaxies in the Universe' Sparke/Gallagher CUP 2007

$$\Phi = \frac{dN_{obs} \Delta M_V}{V_m (M_V)}$$

volume limited vs  
flux limited surveys

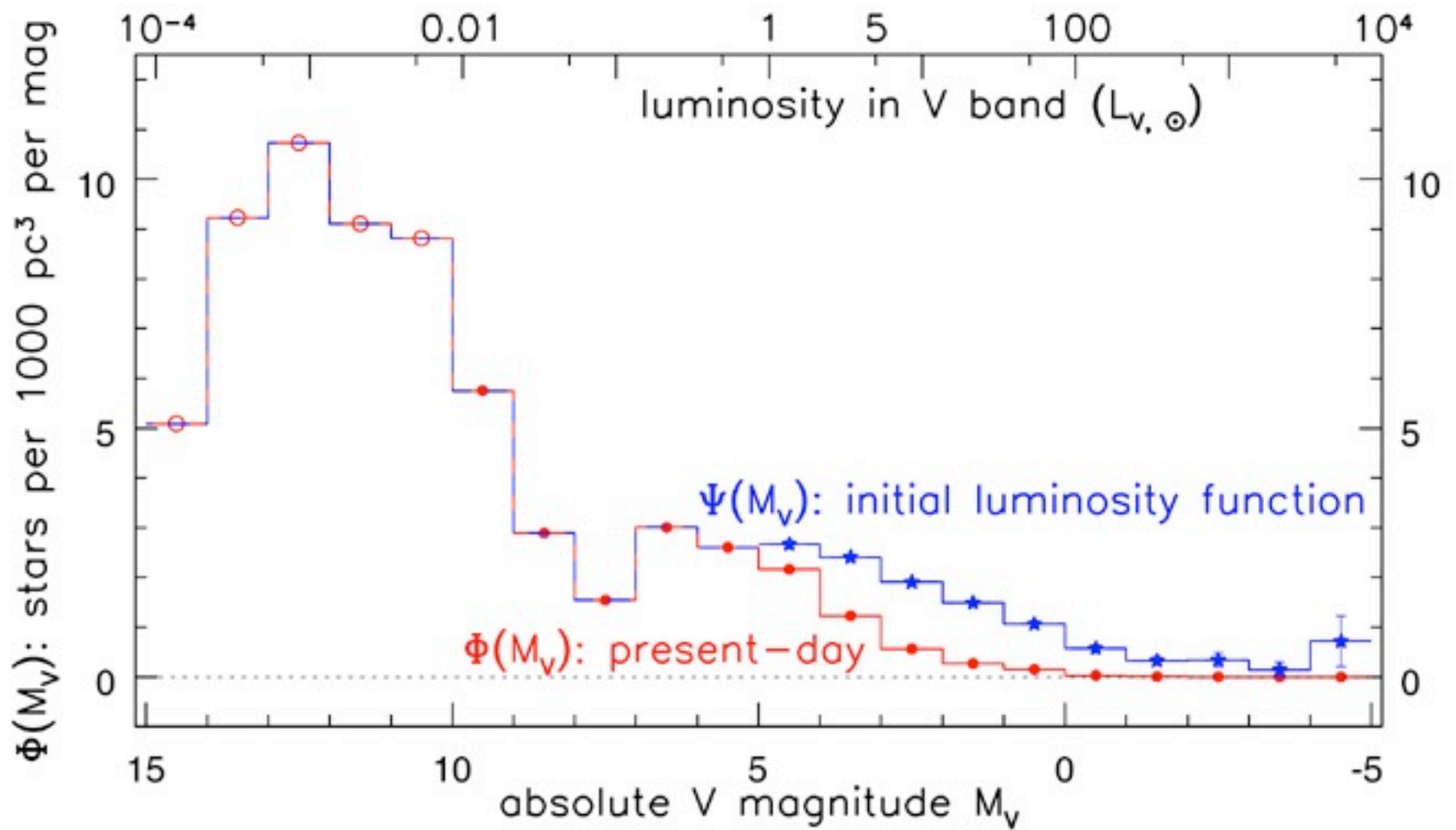


Fig 2.4 'Galaxies in the Universe' Sparke/Gallagher CUP 2007

# Pleiades:

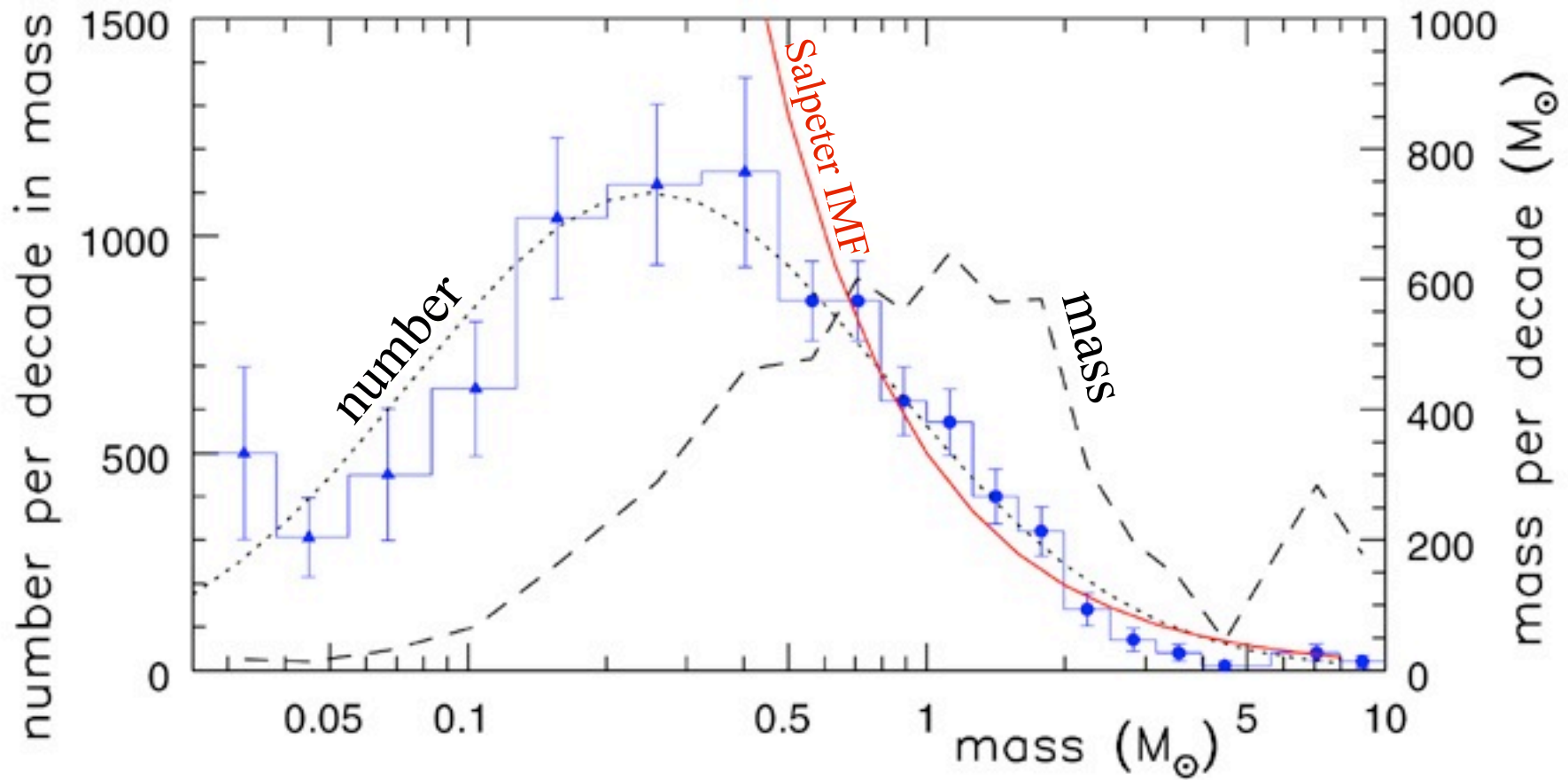


Fig 2.5 (E. Moreau) 'Galaxies in the Universe' Sparke/Gallagher CUP 2007