

Introduction to Astromomy and Astrophysics I/II

Discussion Section/Exercises Thursday, Sep. 29, 2005

- 1) Show that the bolometric surface brightness of any object decreases with cosmological distance as $(1+z)^4$

- 2) Under what angle does a size scale that has by now expanded to the size of a galaxy halo (3 kpc) appear when we observe its state back at the epoch of re-combination ($z \sim 1100$)?