

Astronomy 210 Spring 2011 Homework Set #8 – Erratum

Problem 2, Part (c)

There was a deadly sign error in the expression for distance modulus. The correct expression should read

$$\mu = m_V - M_V = -5 + 5 \log_{10} d \quad (1)$$

where d is in parsecs. Note that in class, the definition was given as $\mu = 5 \log_{10}(d/10 \text{ pc})$ which of course is equivalent to eq. (1).

Management regrets the error.