

HW 4, #2

A paper by Jensen et al. appears in 2021 in ApJS

volume 255

Table 3 lists these members of the Perseus Cluster of galaxies:
dist

NGC 1259 74.6 ± 3.6 Mpc

NGC 1272 71.0 3.2

NGC 1278 69.2 3.4

All three have a "group radial velocity" of

$$V_{\text{grp}} = 5281 \text{ km/s}$$

We can calculate H_0 using these values.

$$\text{avg dist} = 71.6 \text{ Mpc}$$

$$H_0 = \frac{5281 \text{ km/s}}{71.6 \text{ Mpc}} = 73.8 \frac{\text{km/s}}{\text{Mpc}}$$