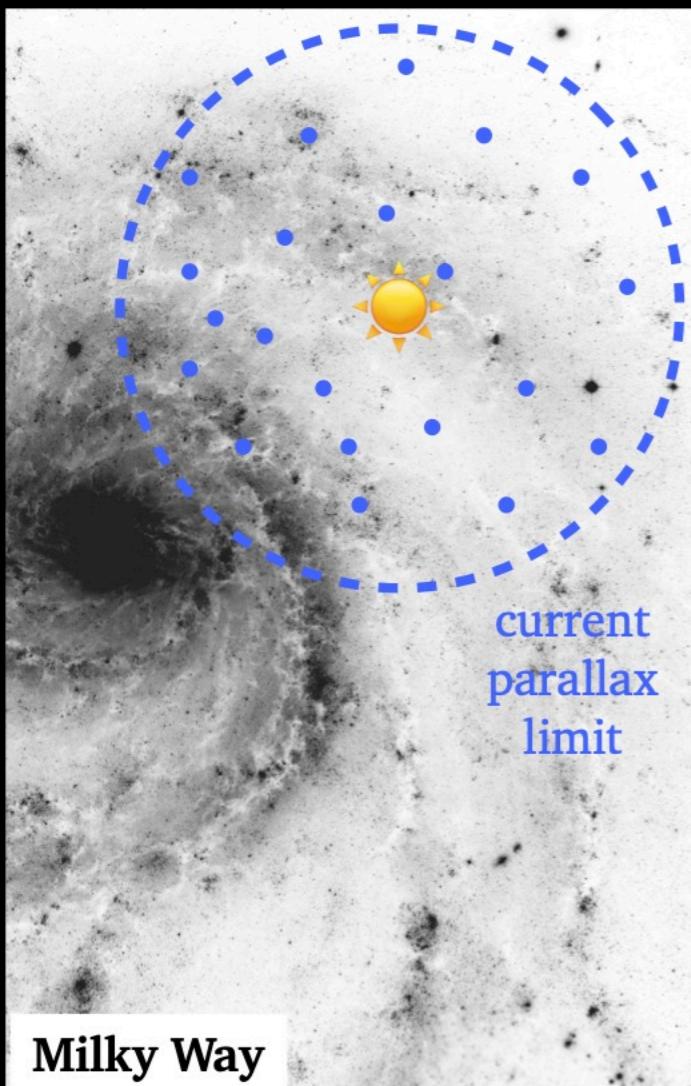


1st rung

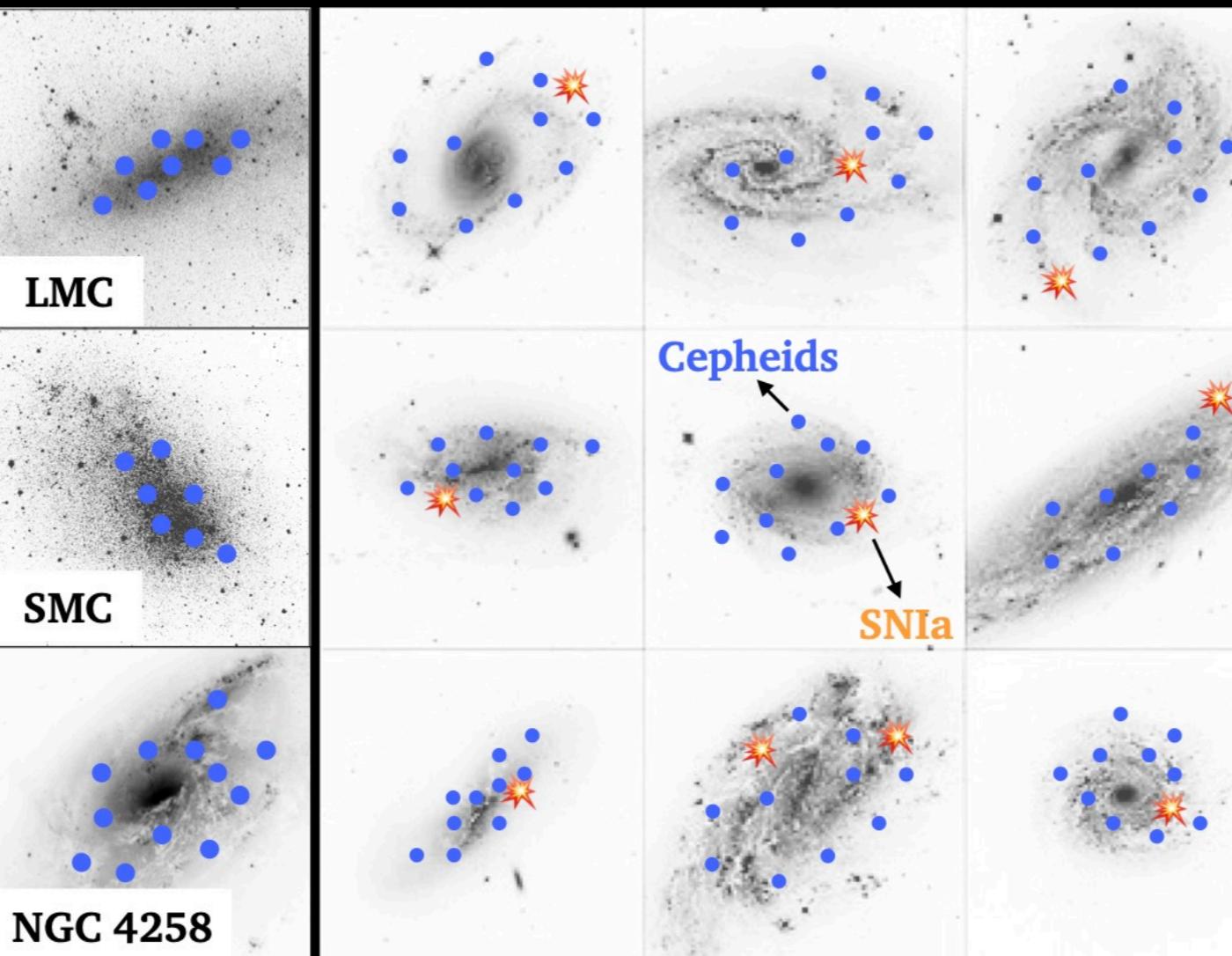
Geometry → Cepheids in 4 anchor galaxies



current
parallax
limit

2nd rung

Cepheids → 42 SNIa in 37 host galaxies



Cepheids

SNIa

Milky Way

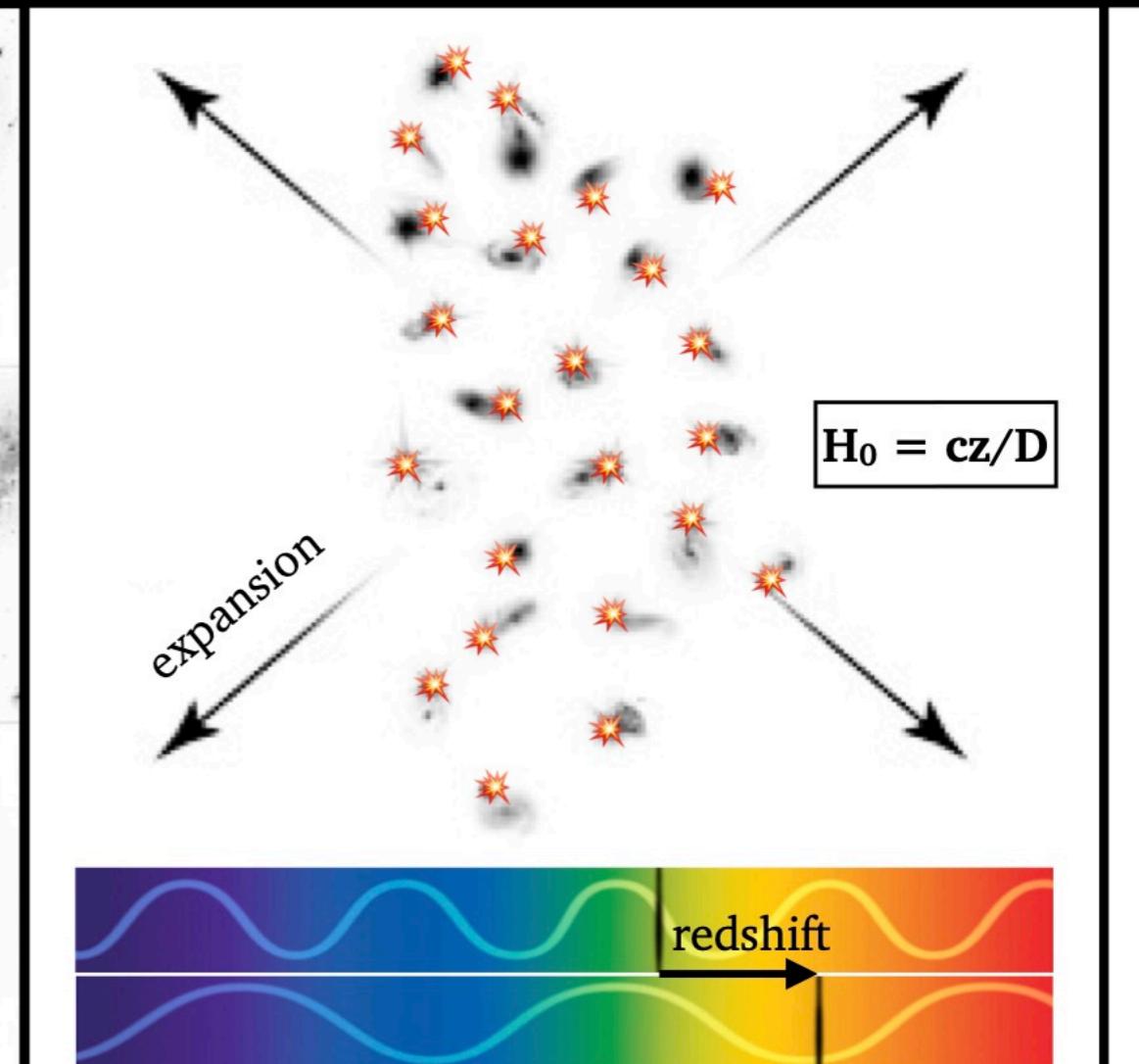
NGC 4258

Local Group: distance < 10 Mpc

10 Mpc < distance < 60 Mpc

3rd rung

277 SNIa → redshifts



$$H_0 = cz/D$$

redshift

0.02 < redshift (z) < 0.20 (Hubble Flow)