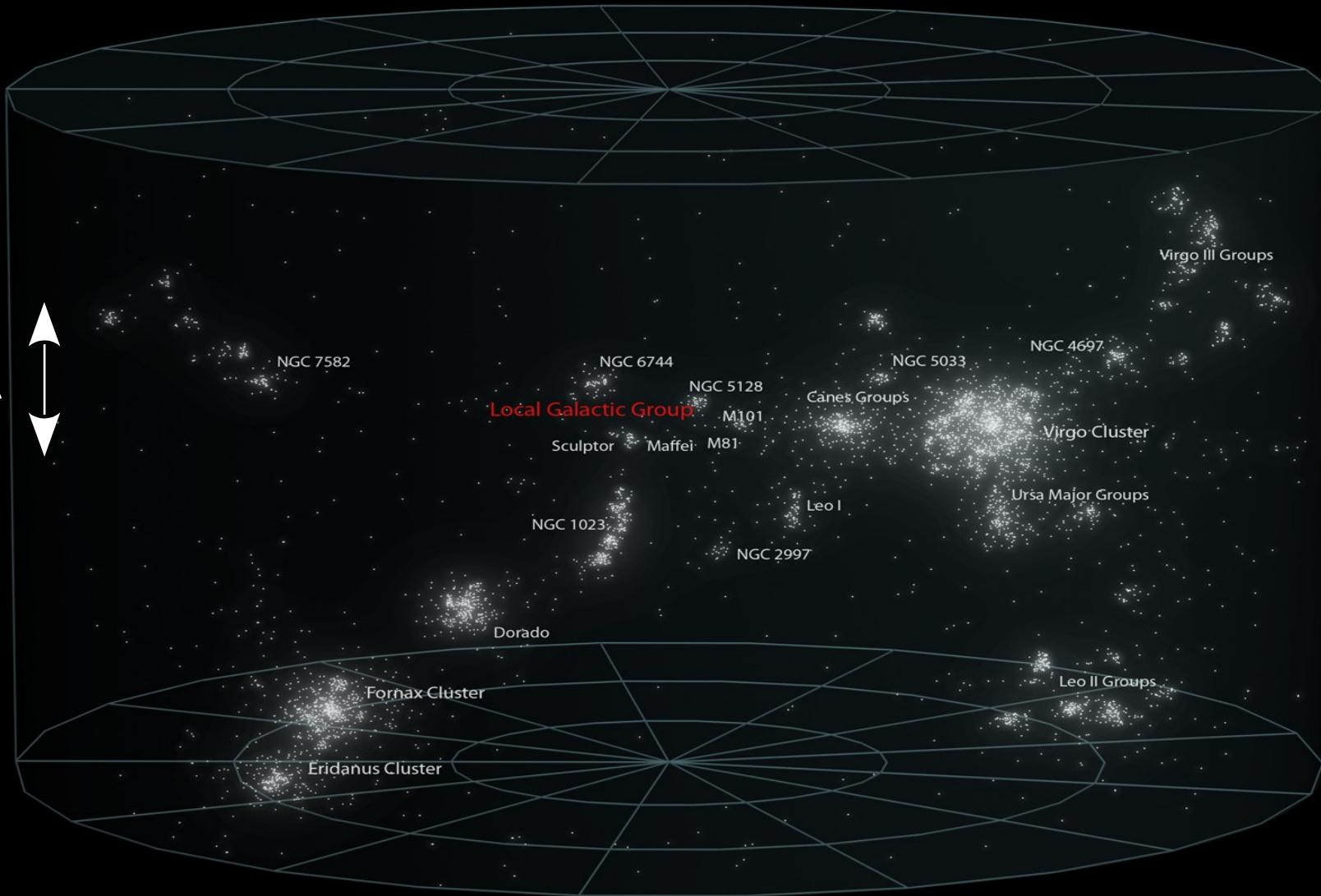


Outside our galaxy

VIRGO SUPERCLUSTER

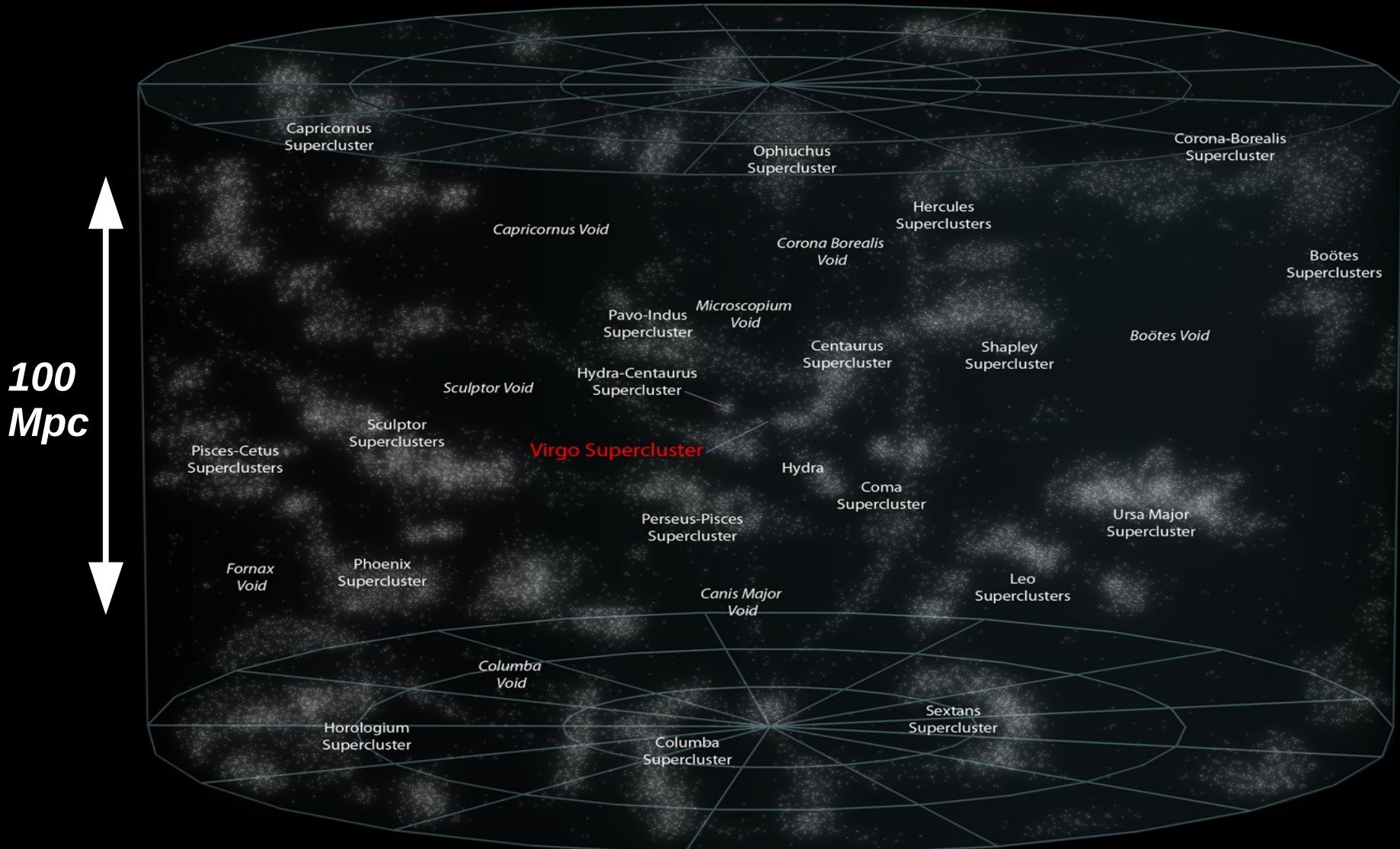
10 Mpc



Virgo Cluster



LOCAL SUPERCLUSTERS



Spiral Galaxies



Galaxy Groups

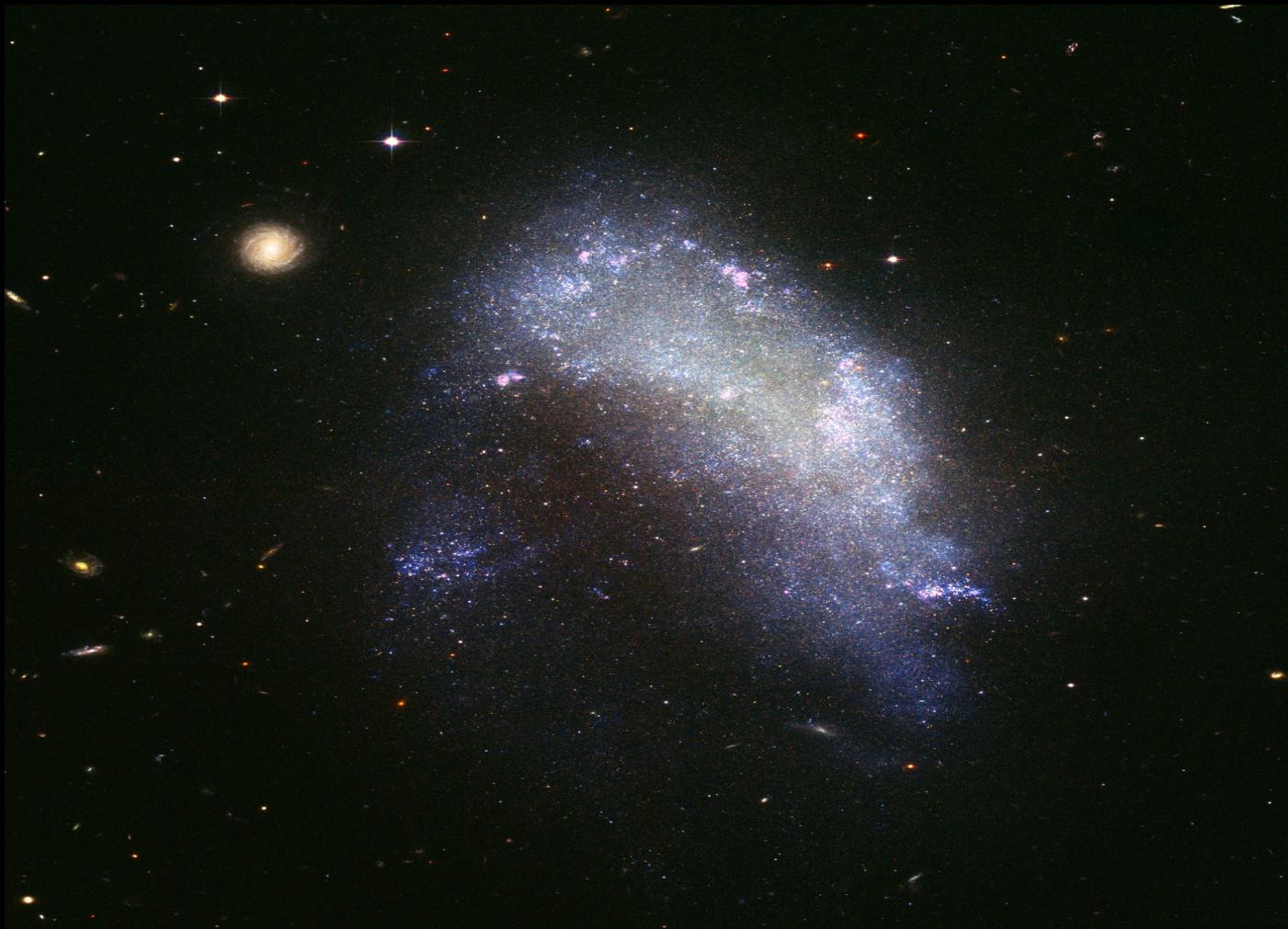


Local Group



Hickson Compact Group
70

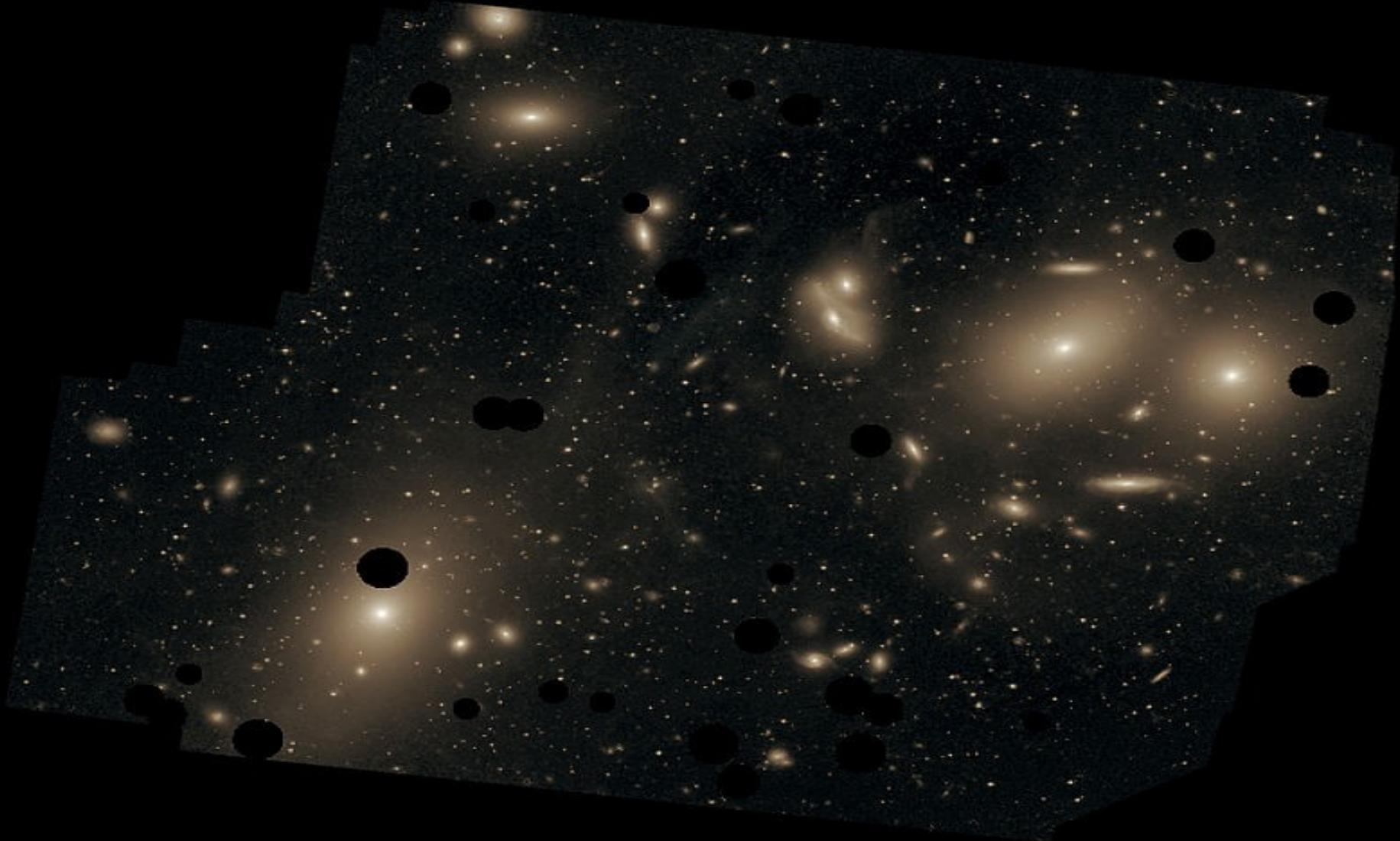
Irregular Galaxies



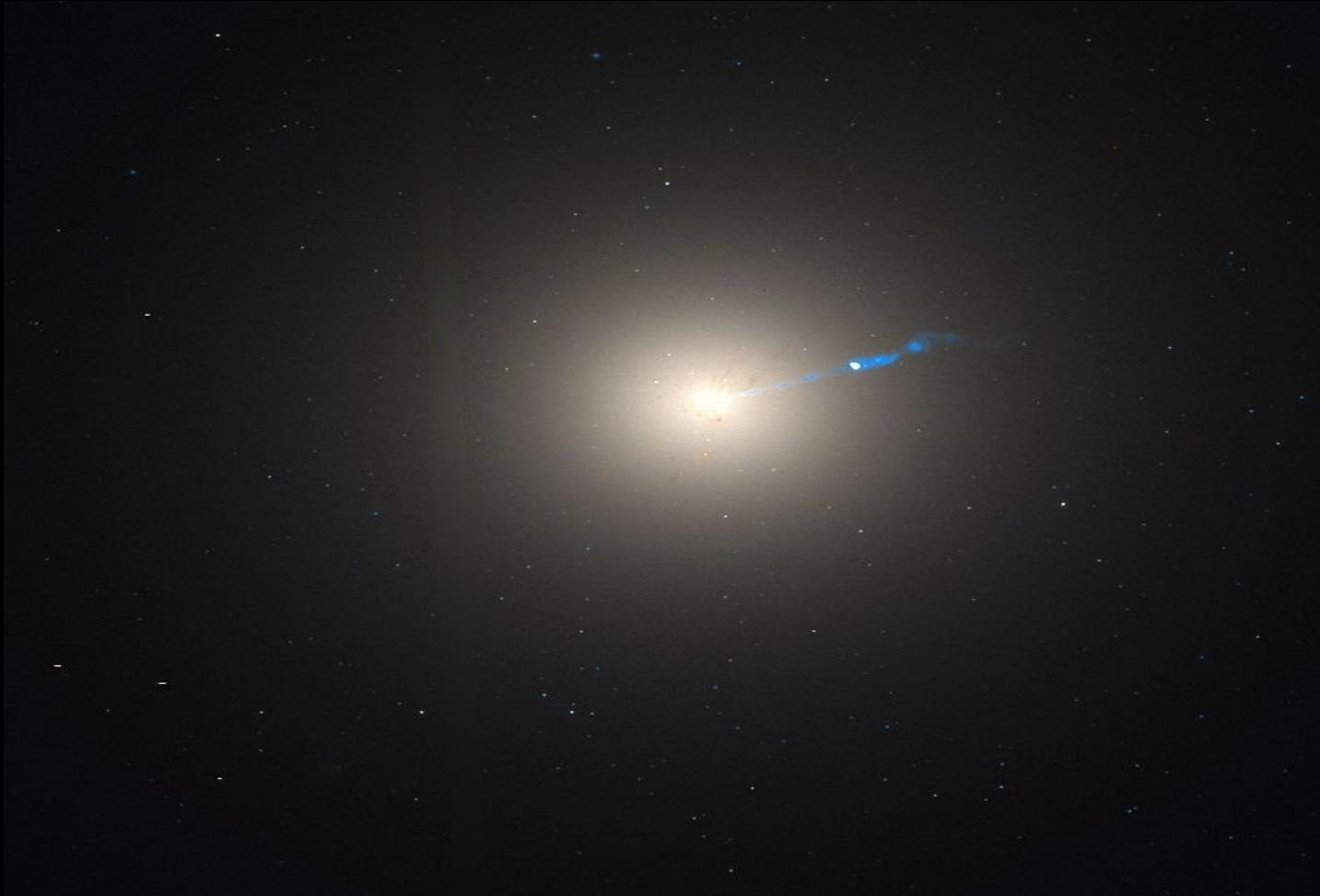
Elliptical Galaxies

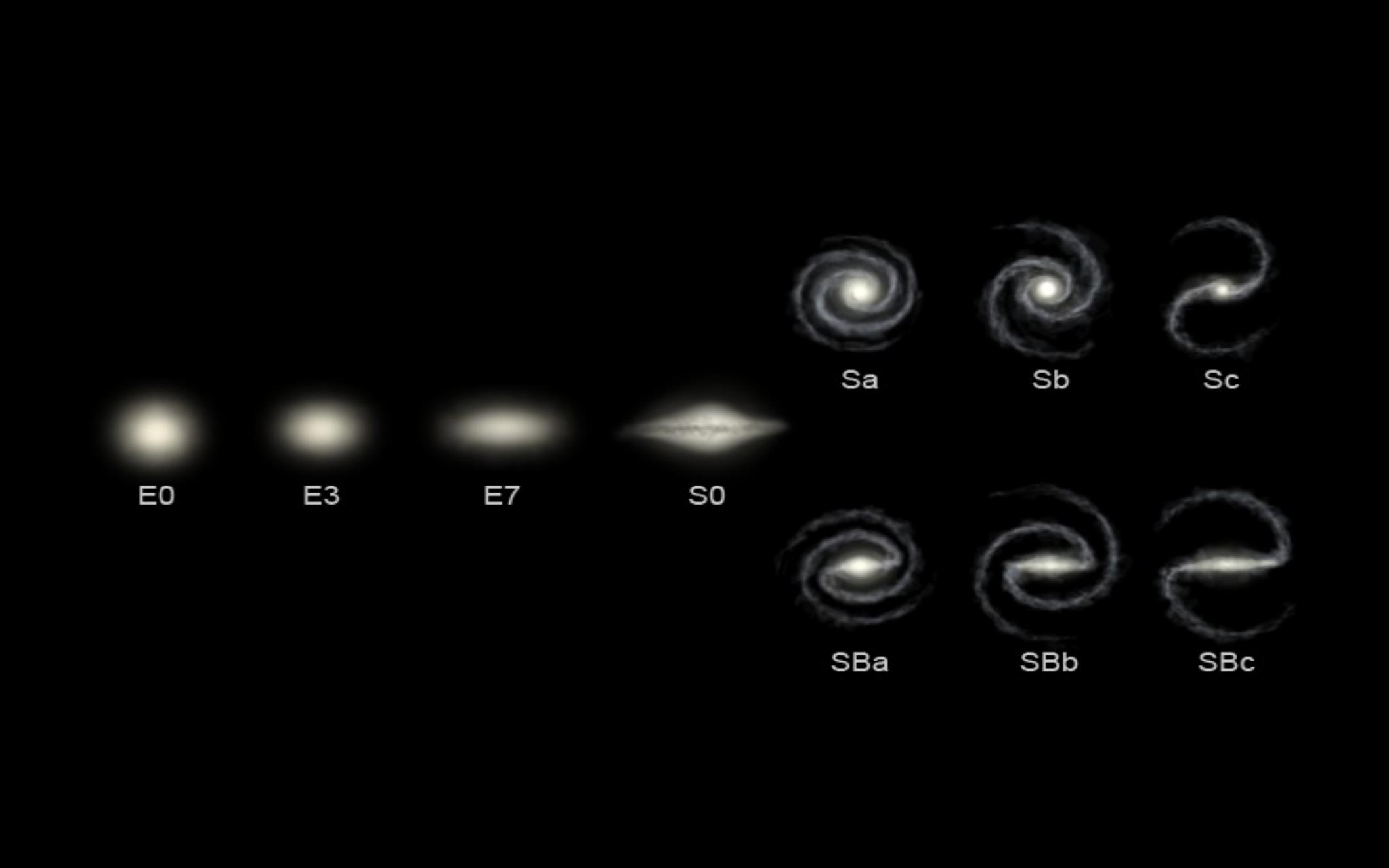


Virgo Cluster



M 87 - Virgo Cluster cD





E0

E3

E7

S0

Sa

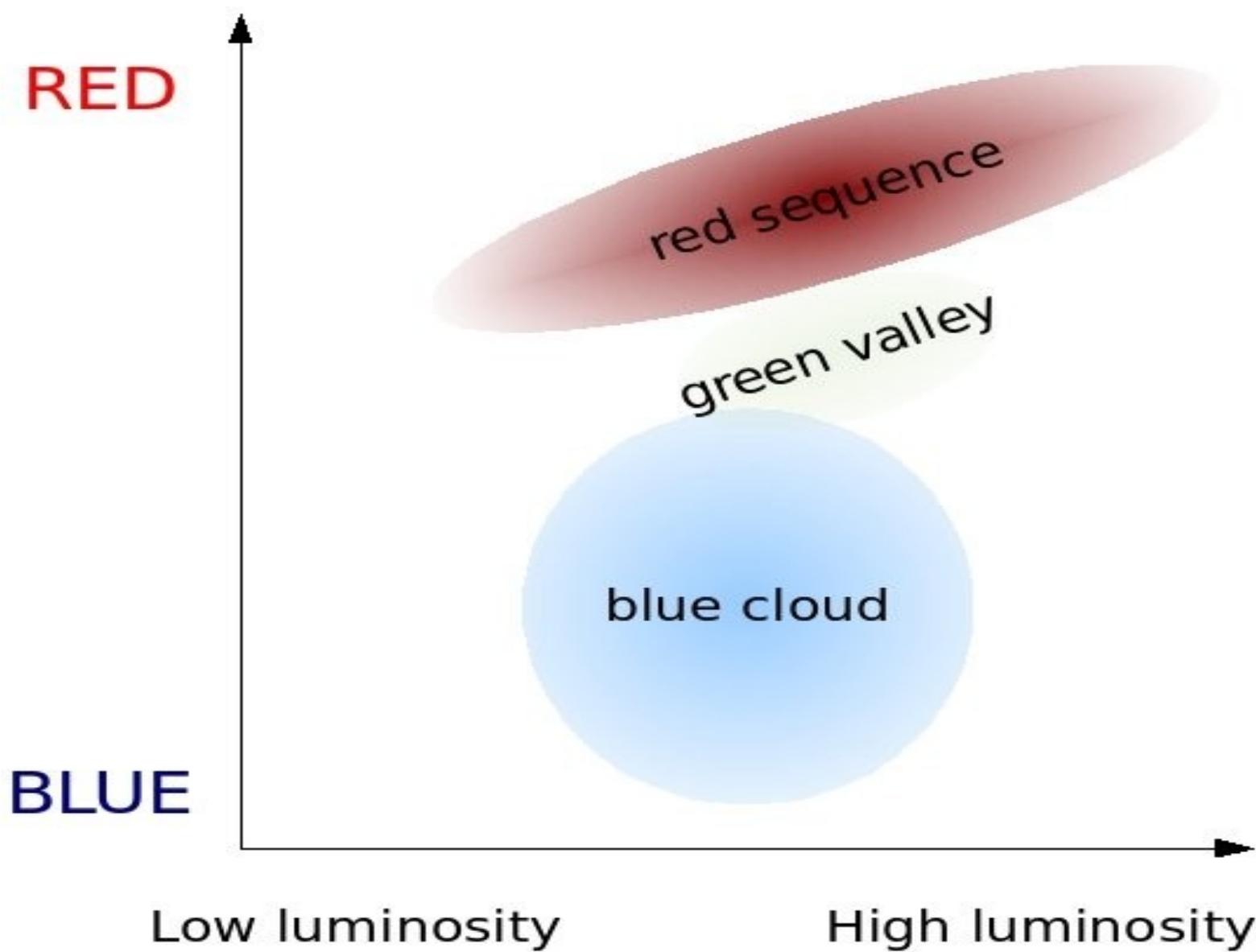
Sb

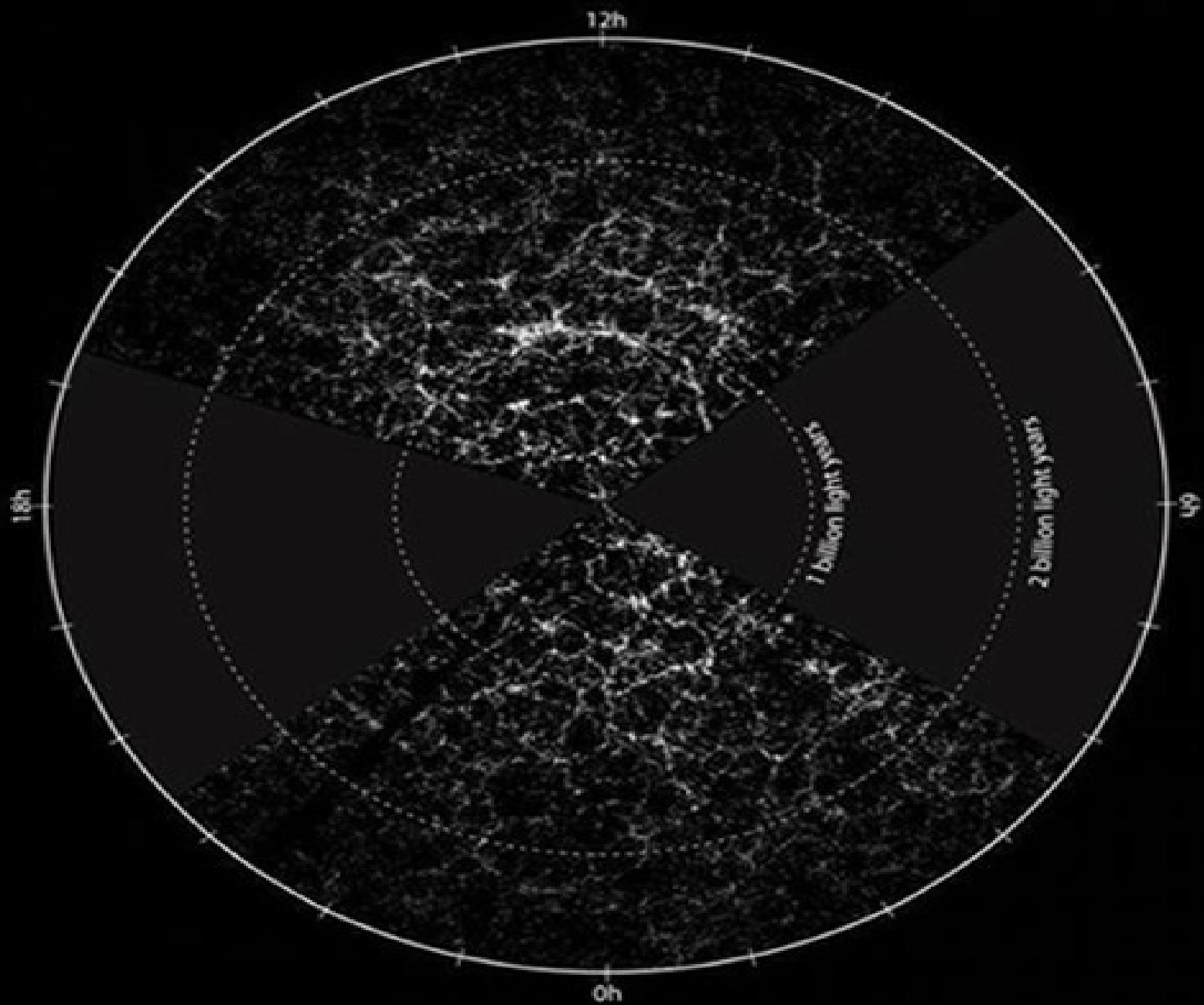
Sc

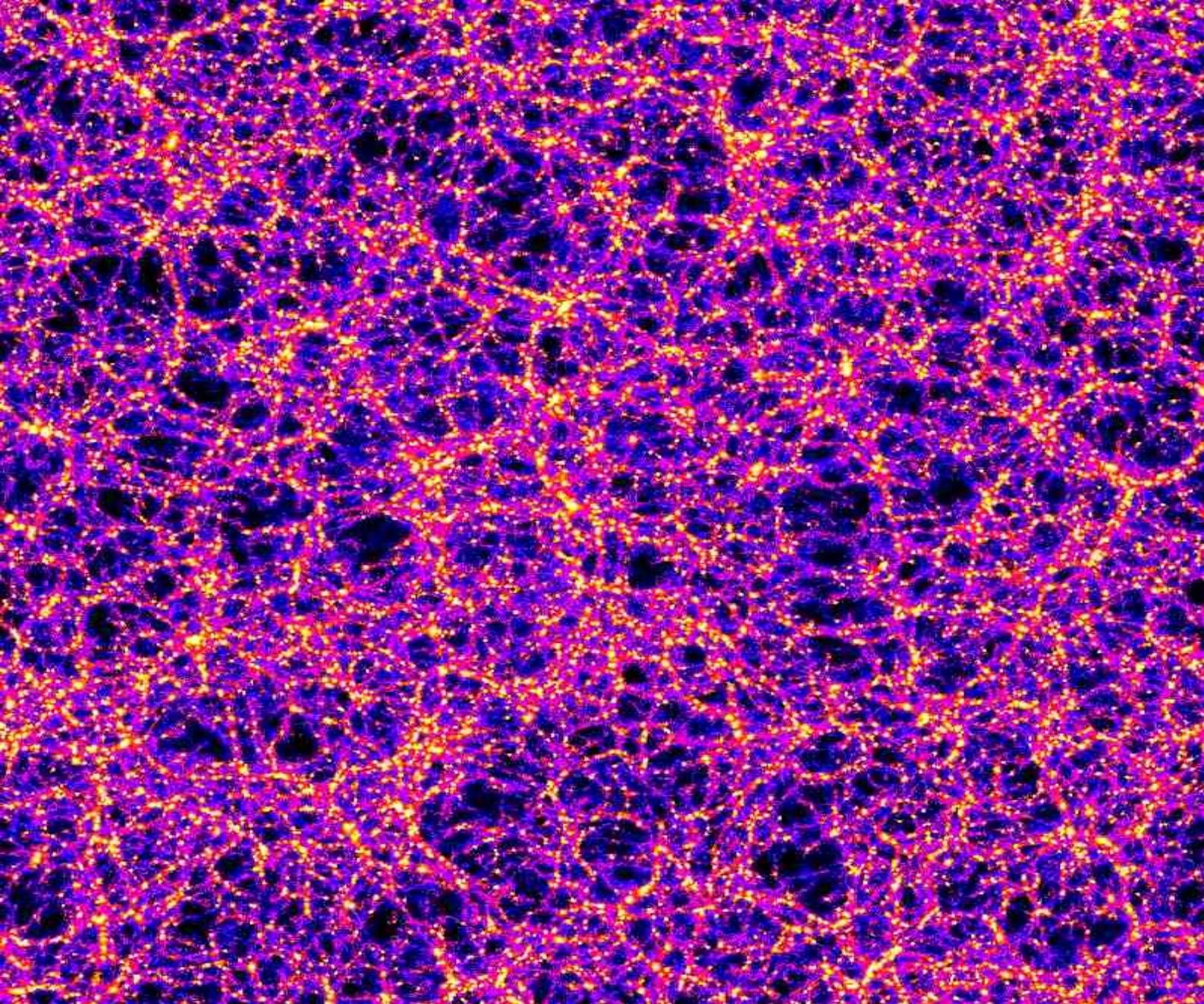
SBa

SBb

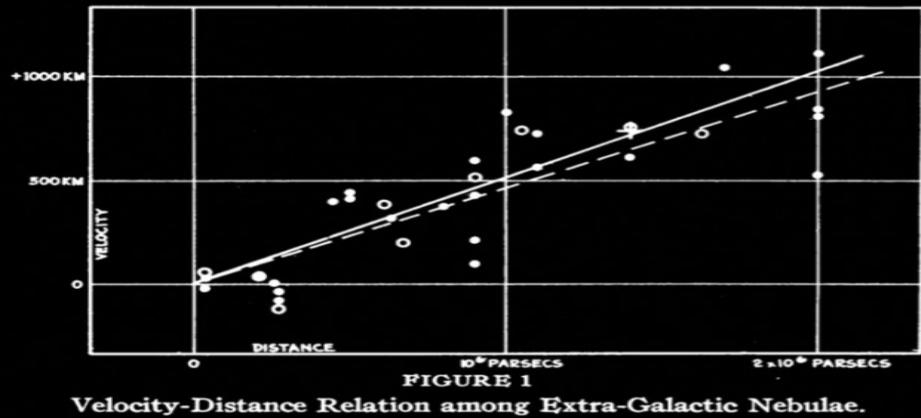
SBc







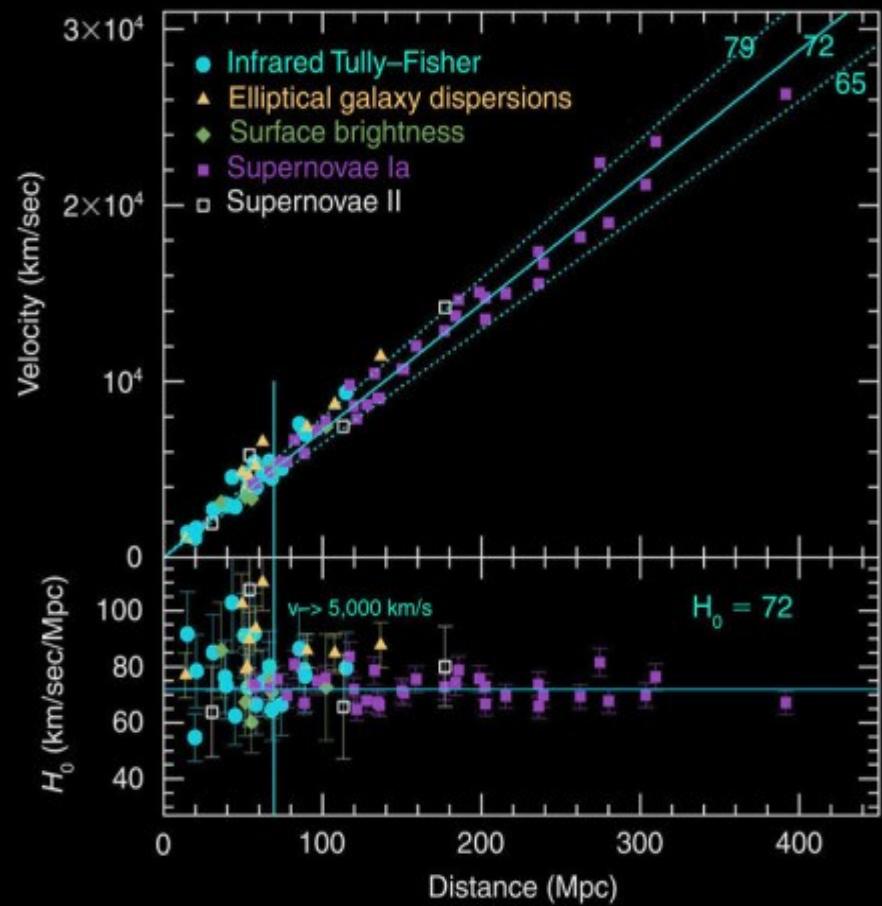
Hubble Law



Edwin Hubble, Proceedings of the National Academy of Sciences, vol. 15 no. 3, pp.168-173

$$v = H_0 d$$

$$H_0 \sim 72 \text{ km/s / Mpc}$$



B

(Wendy L. Freedman, Observatories of the Carnegie Institution of Washington, and NASA)

SN Ia as standard candles

