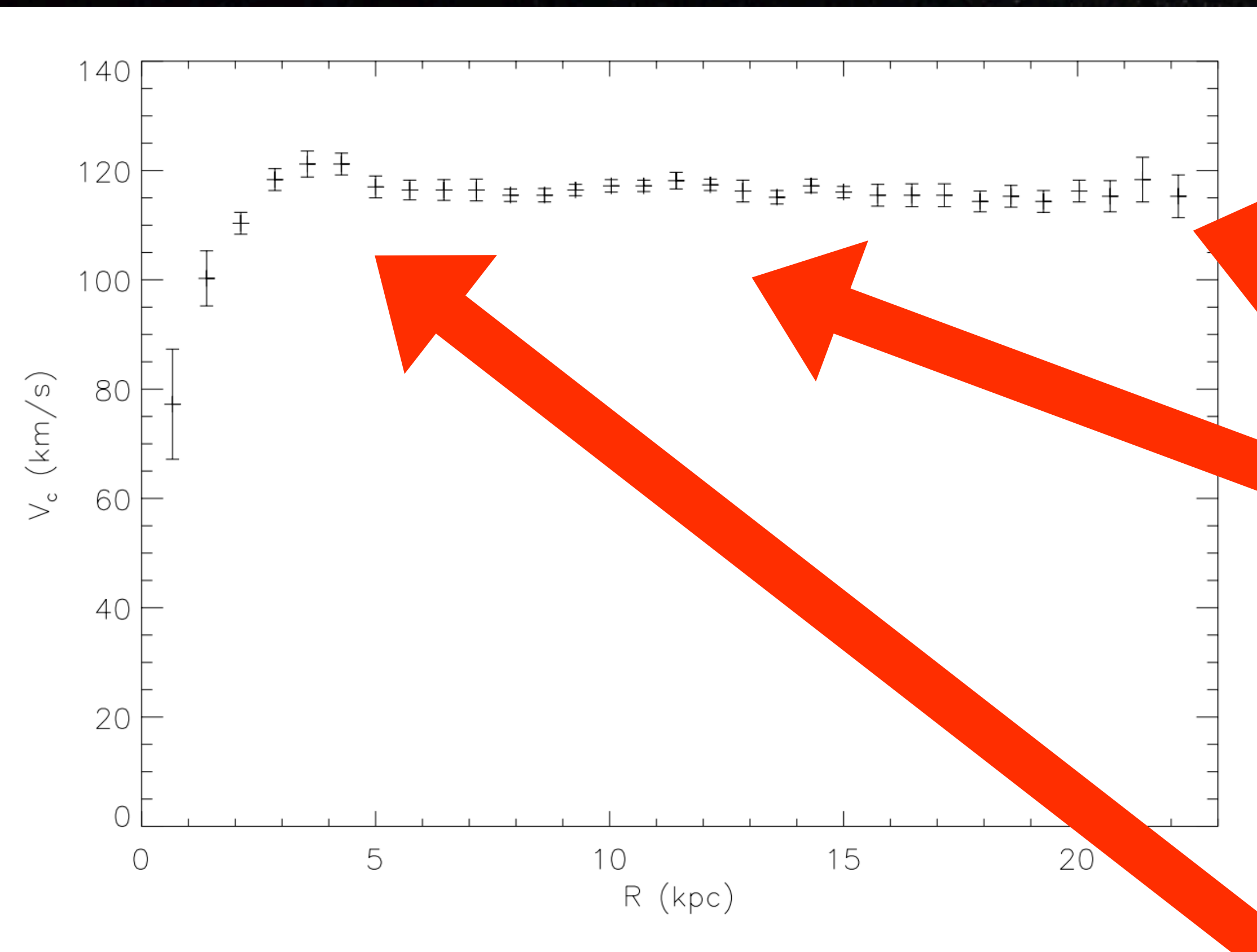
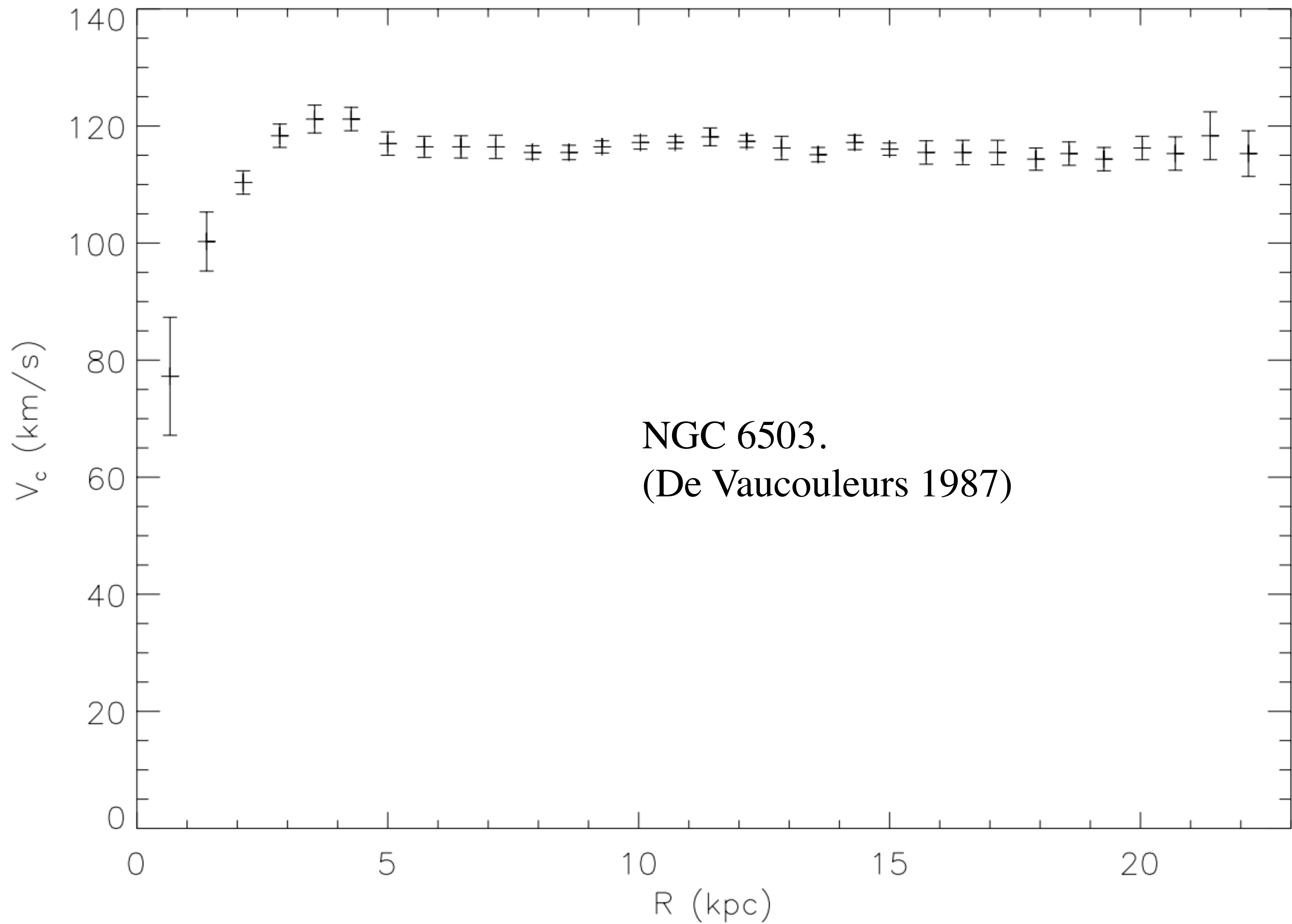


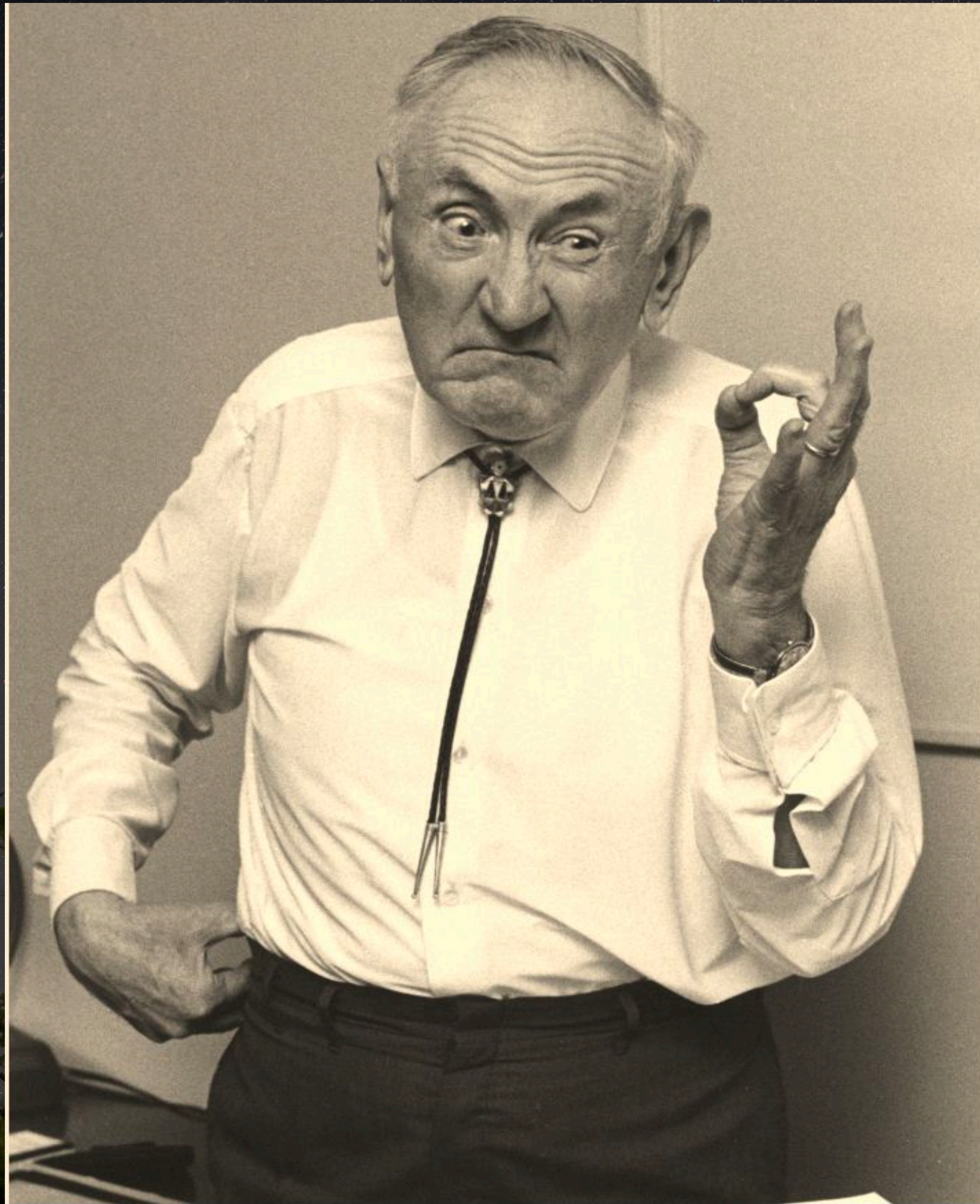
# Dark matter

*L. Vacher -*









1933, amas de comas

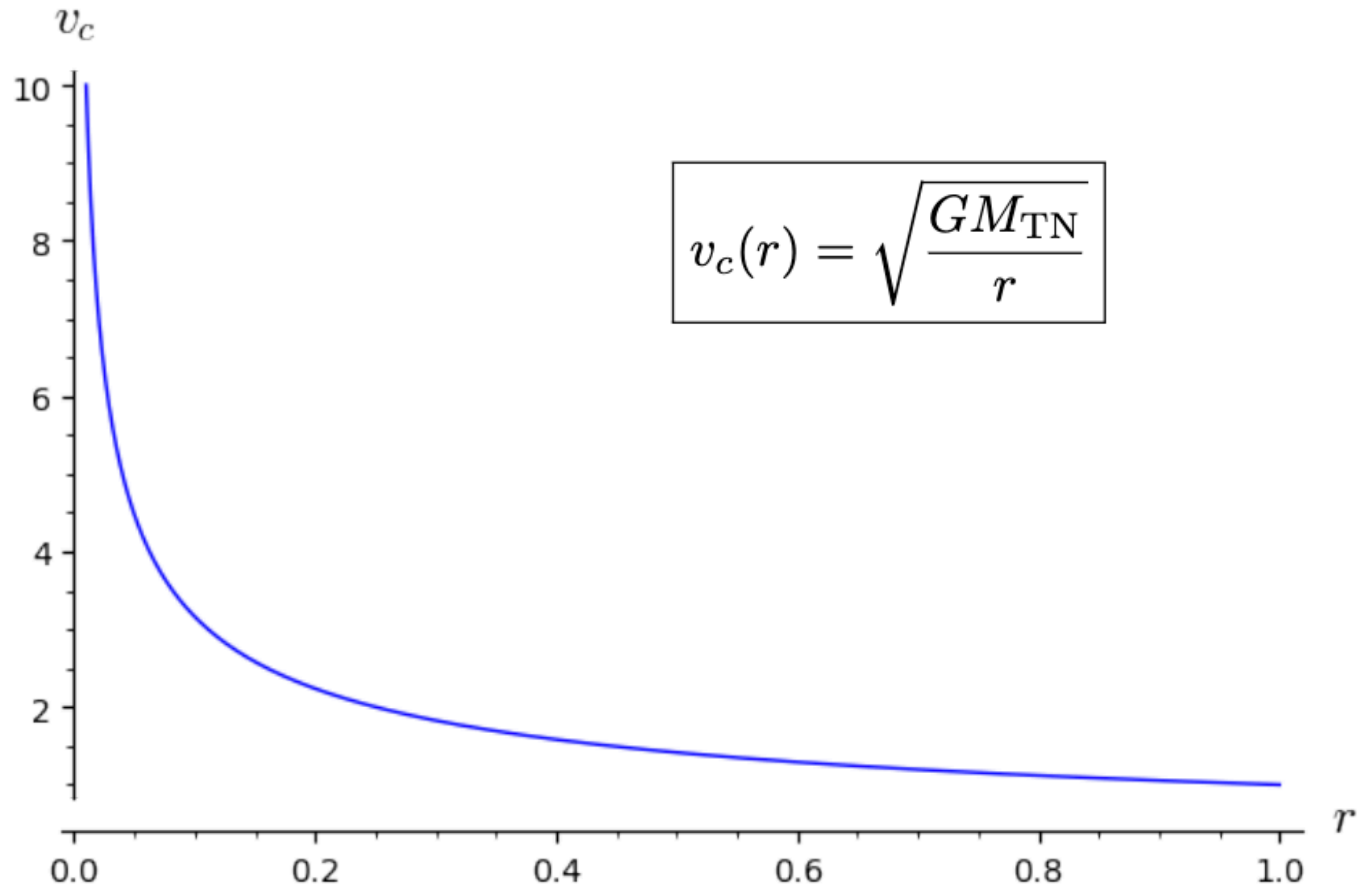
Astronomers are spherical bastards.  
No matter how you look at them  
they are just bastards.

— *Fritz Zwicky* —

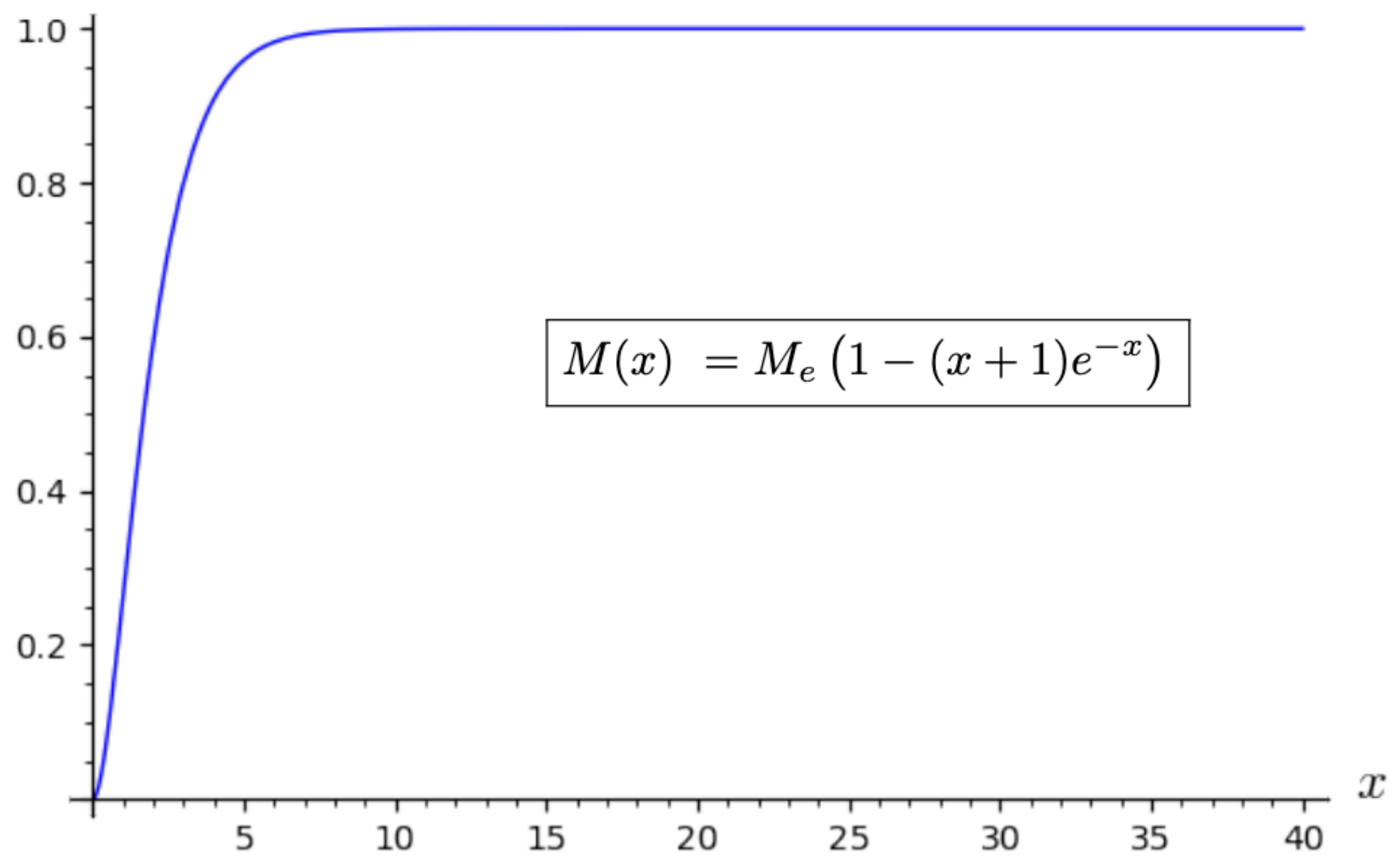


~ 1970, Vera Rubin





$M(x)/M_e$





$v_c(\text{km/s})$

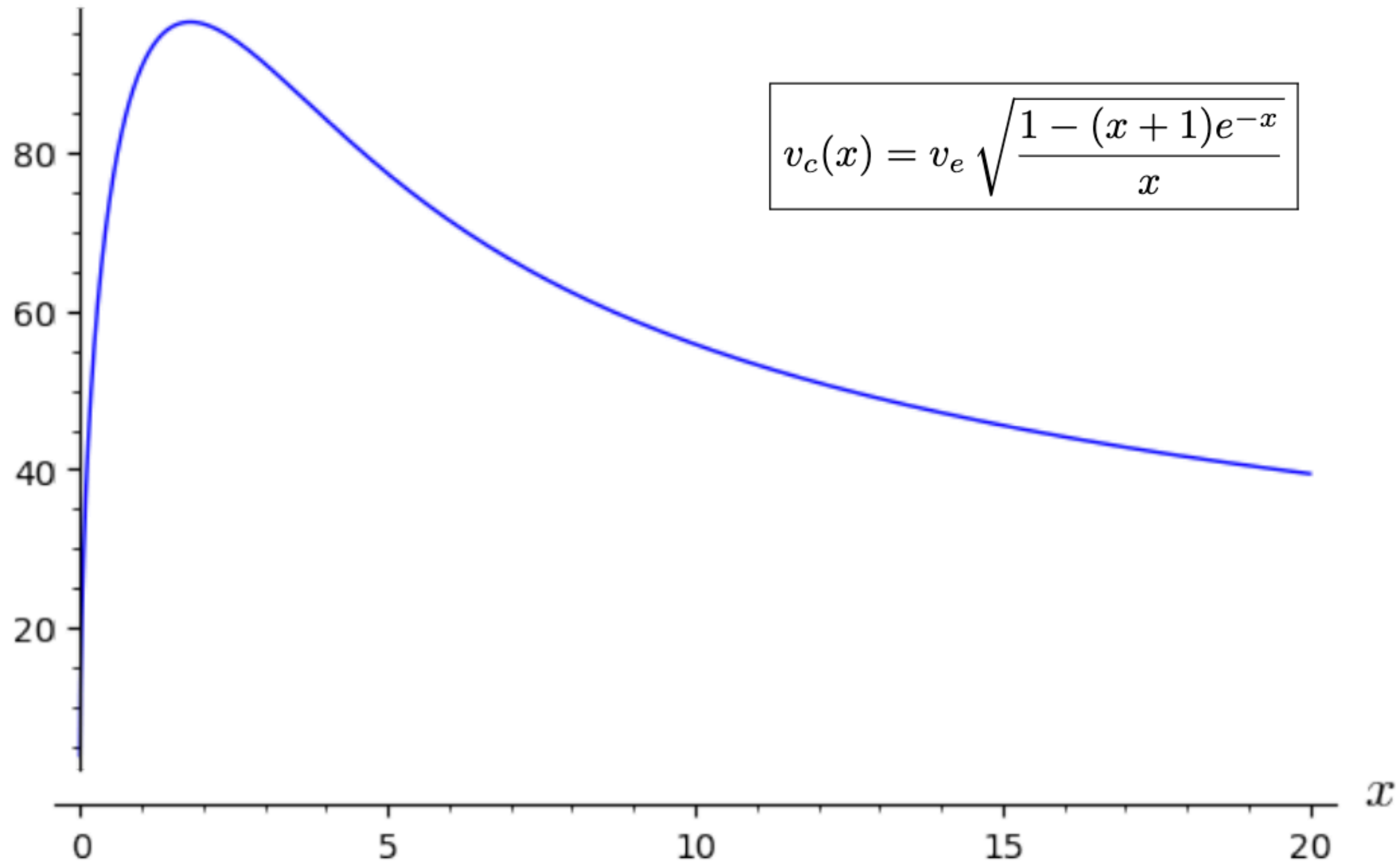
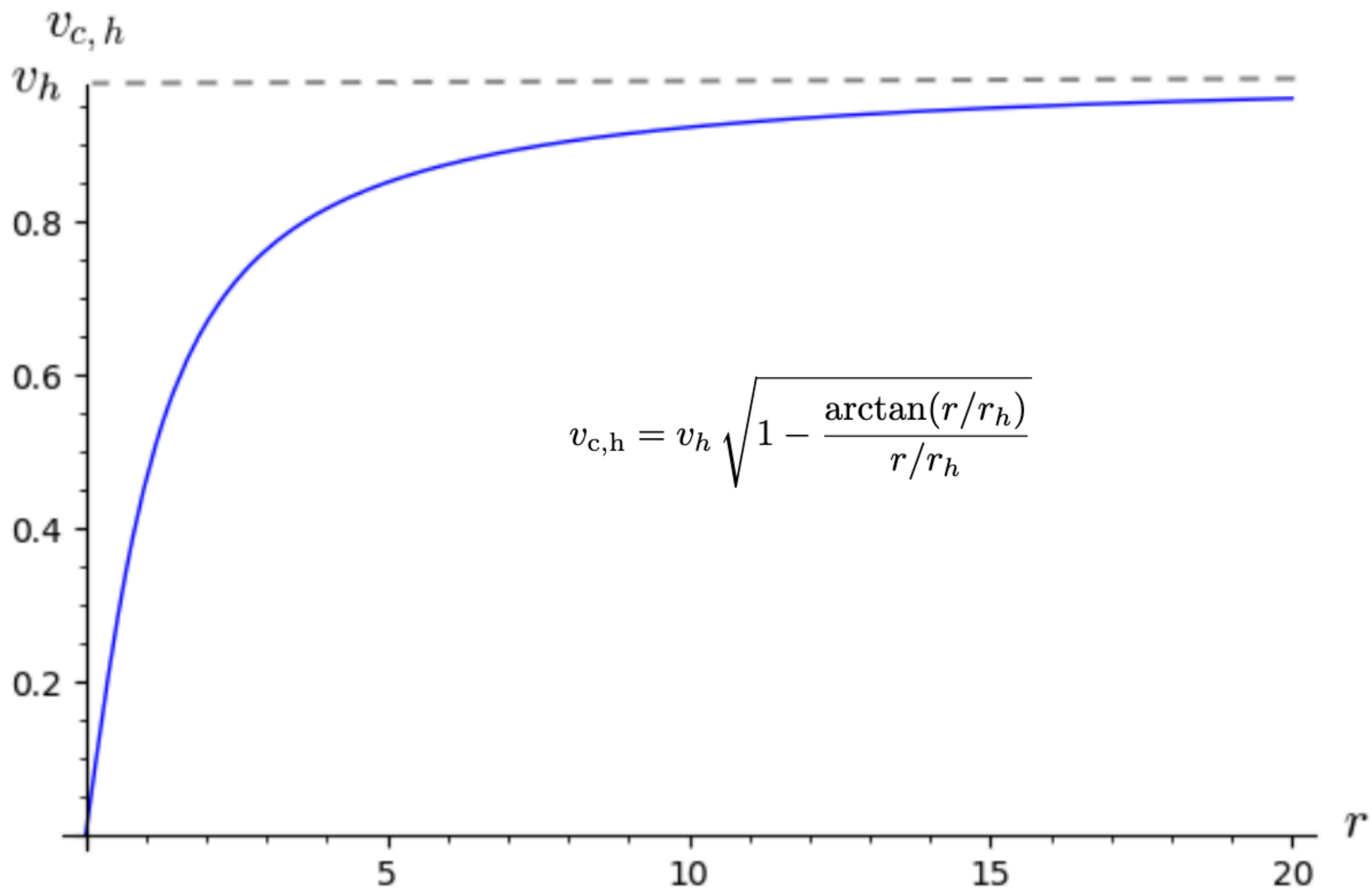
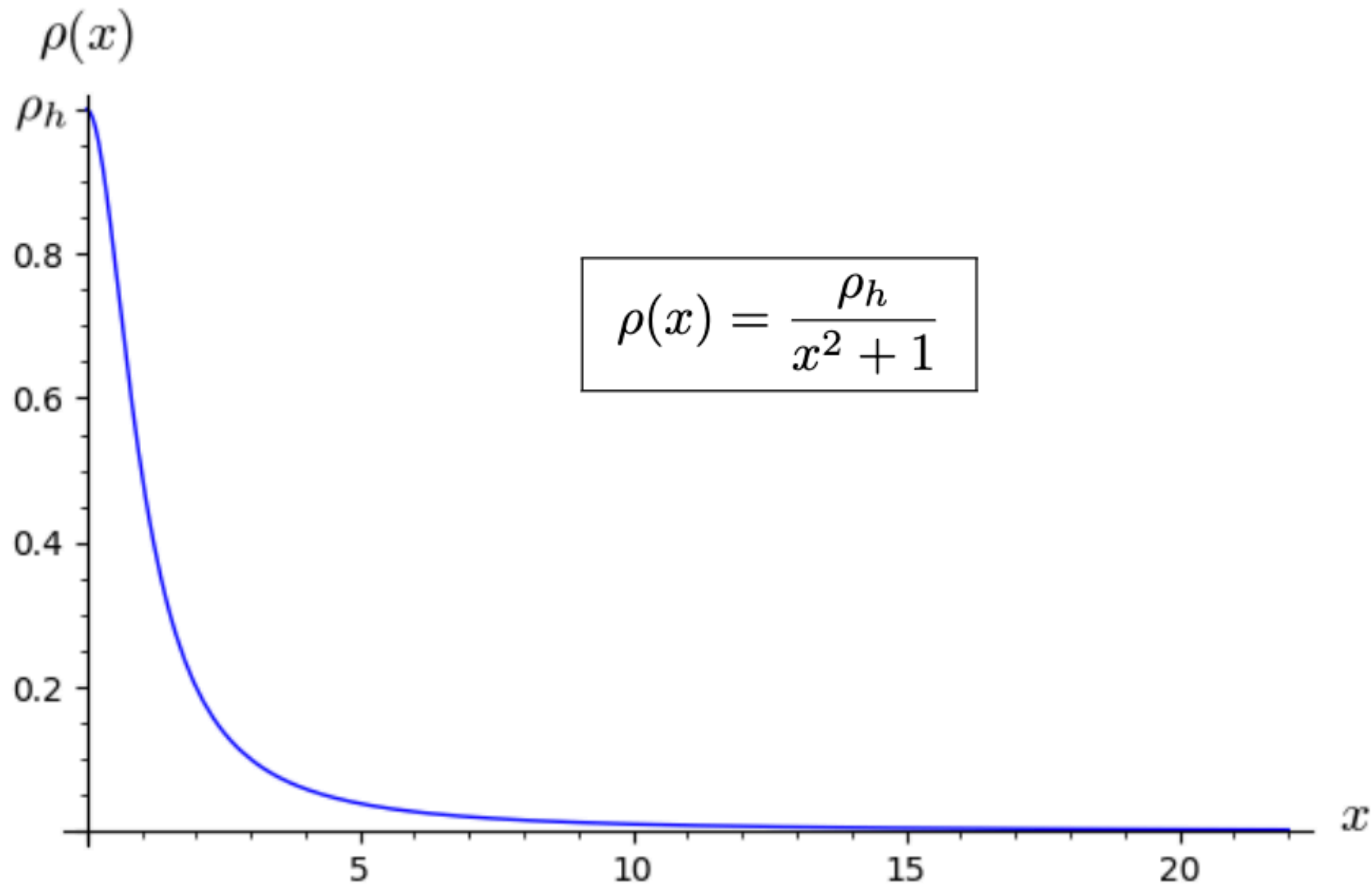
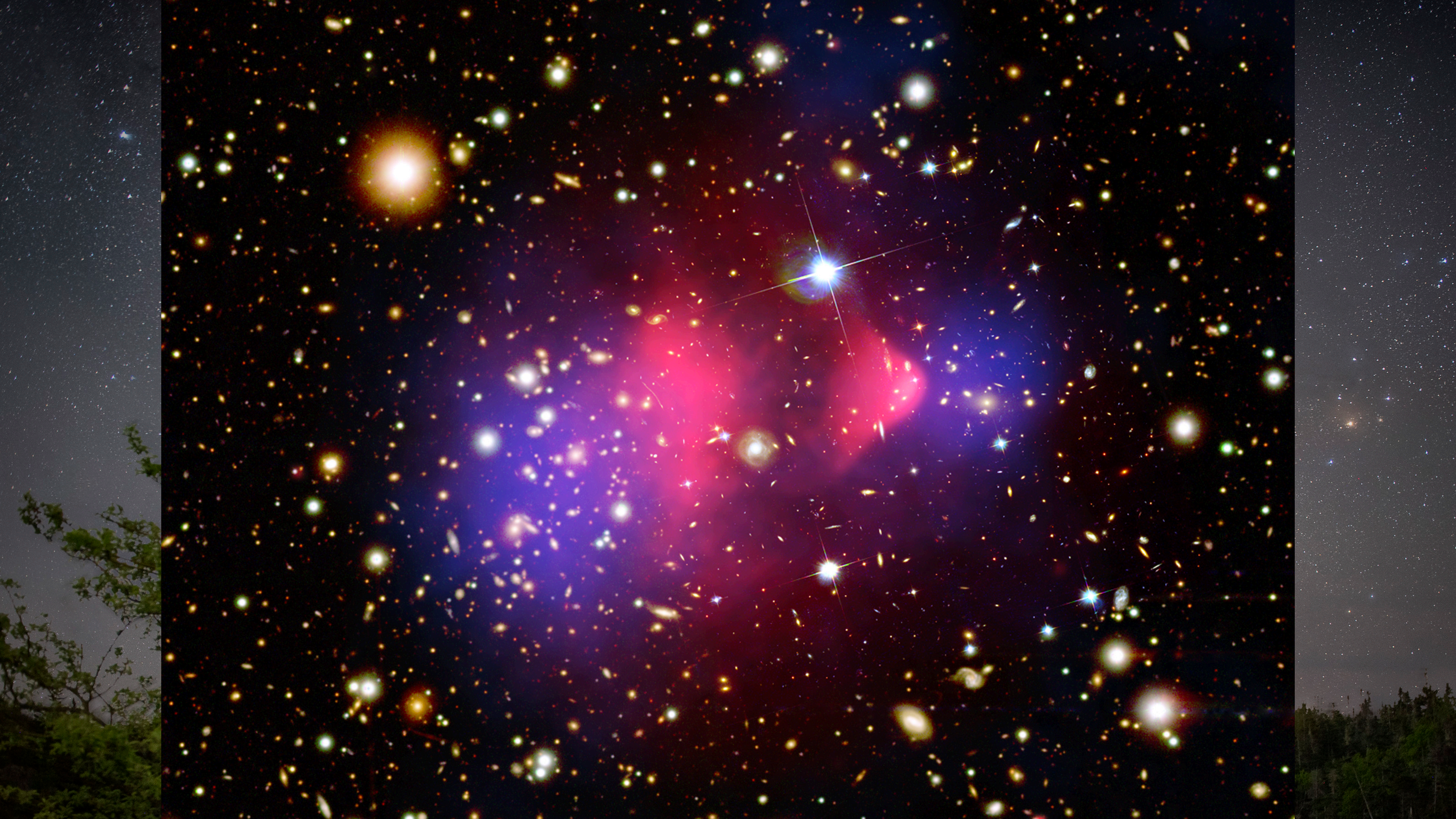
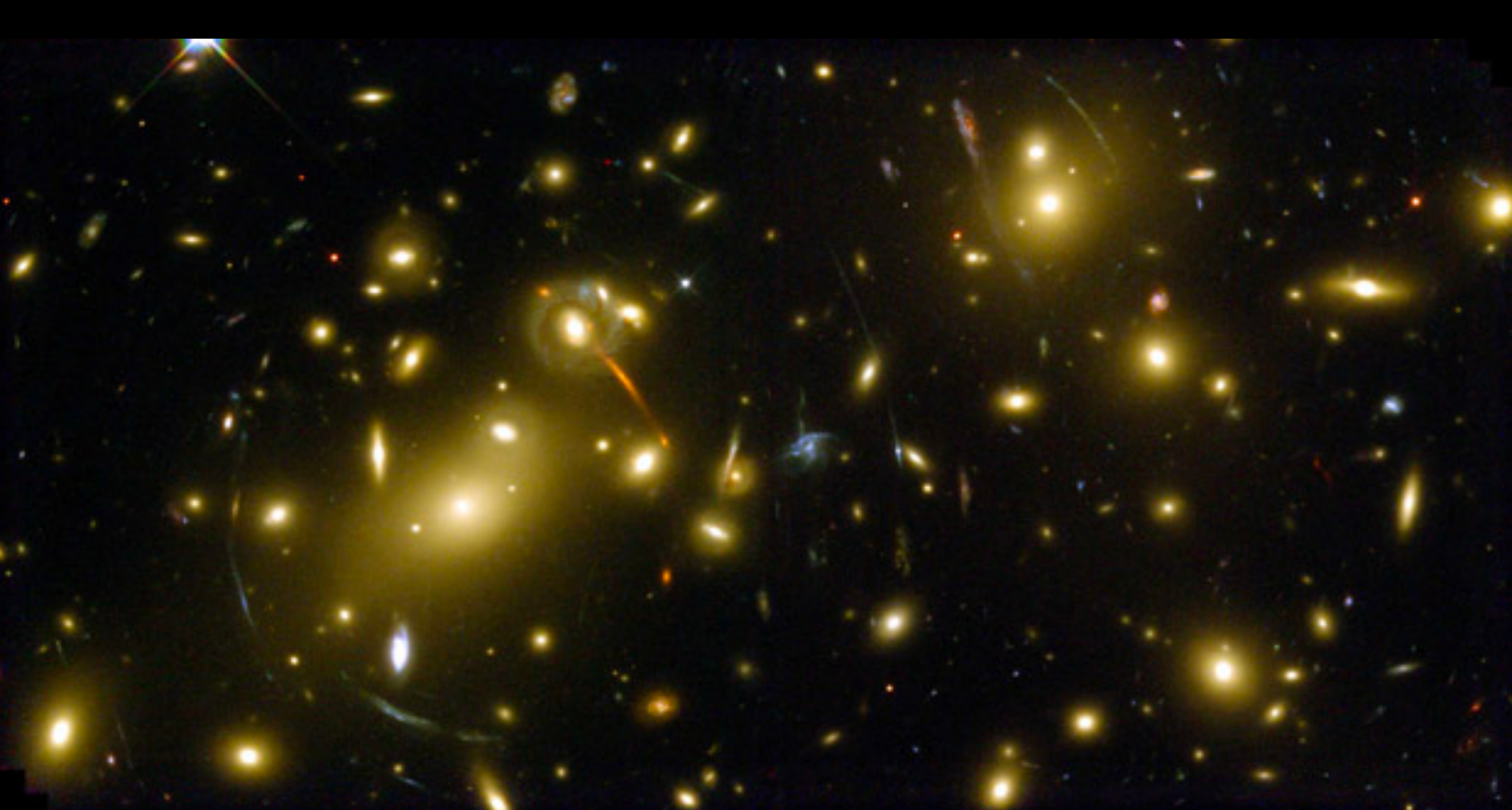


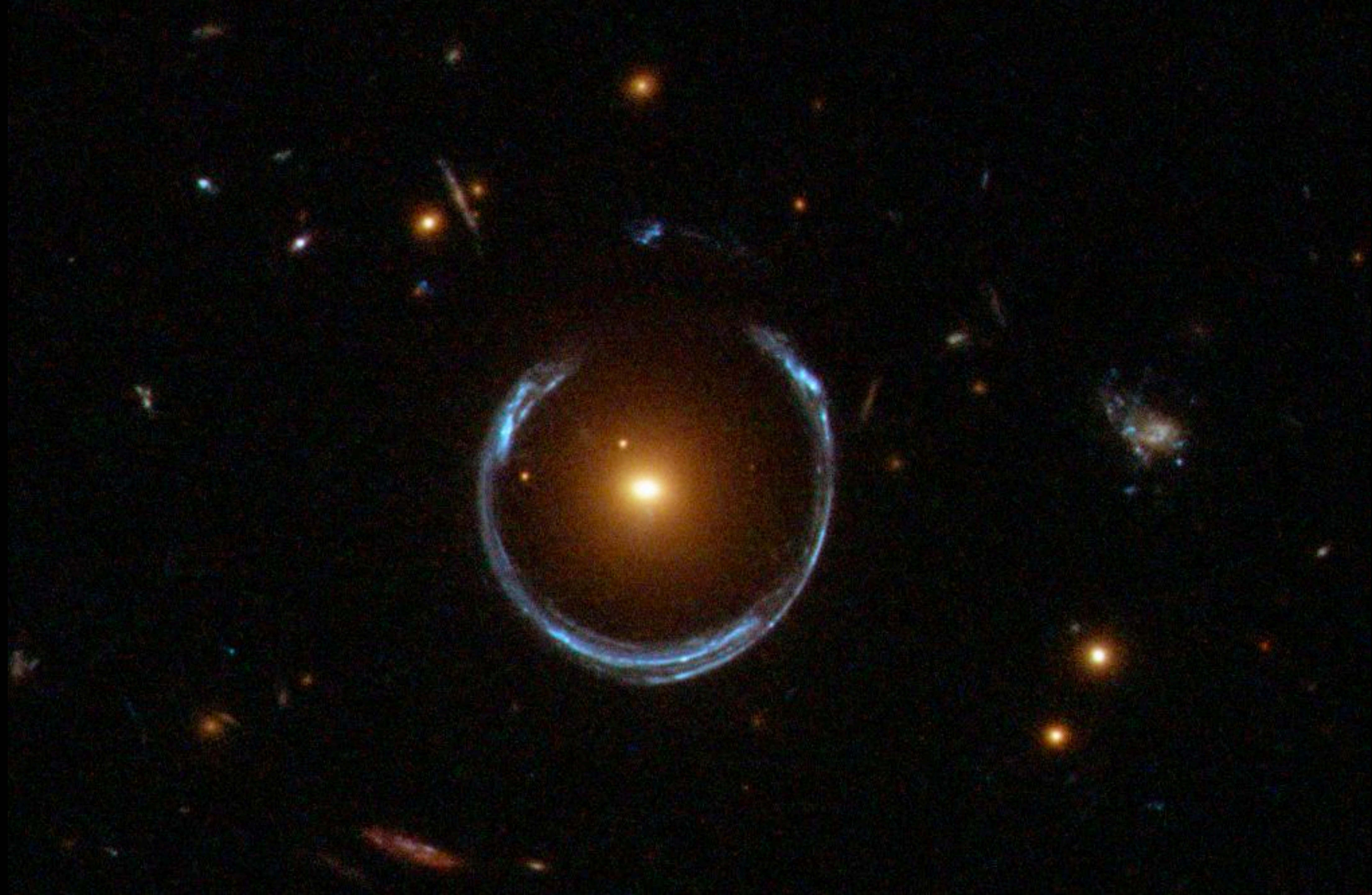
FIGURE 2 – Allure de la courbe de rotation  $v_c$  due aux étoiles

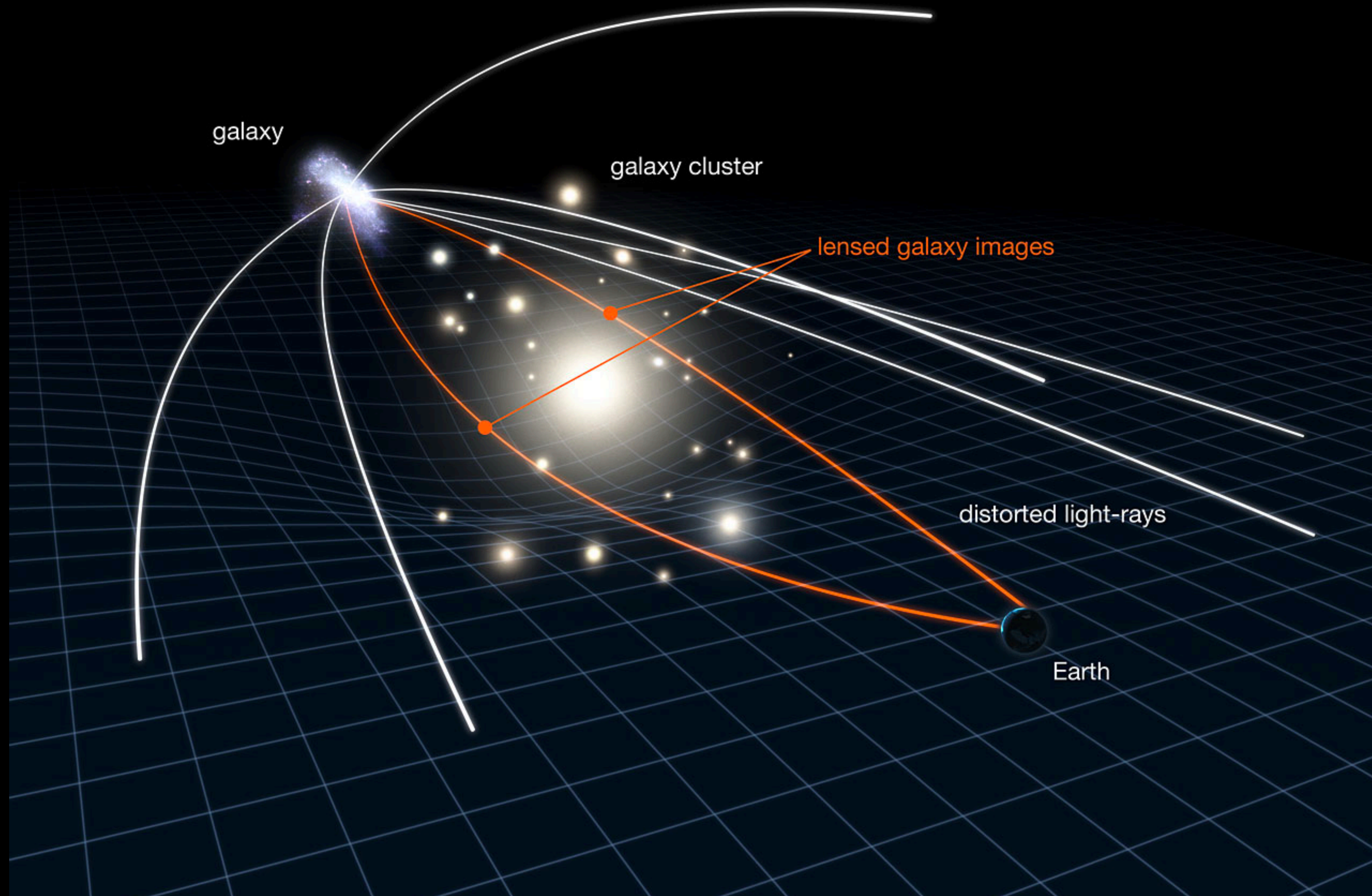


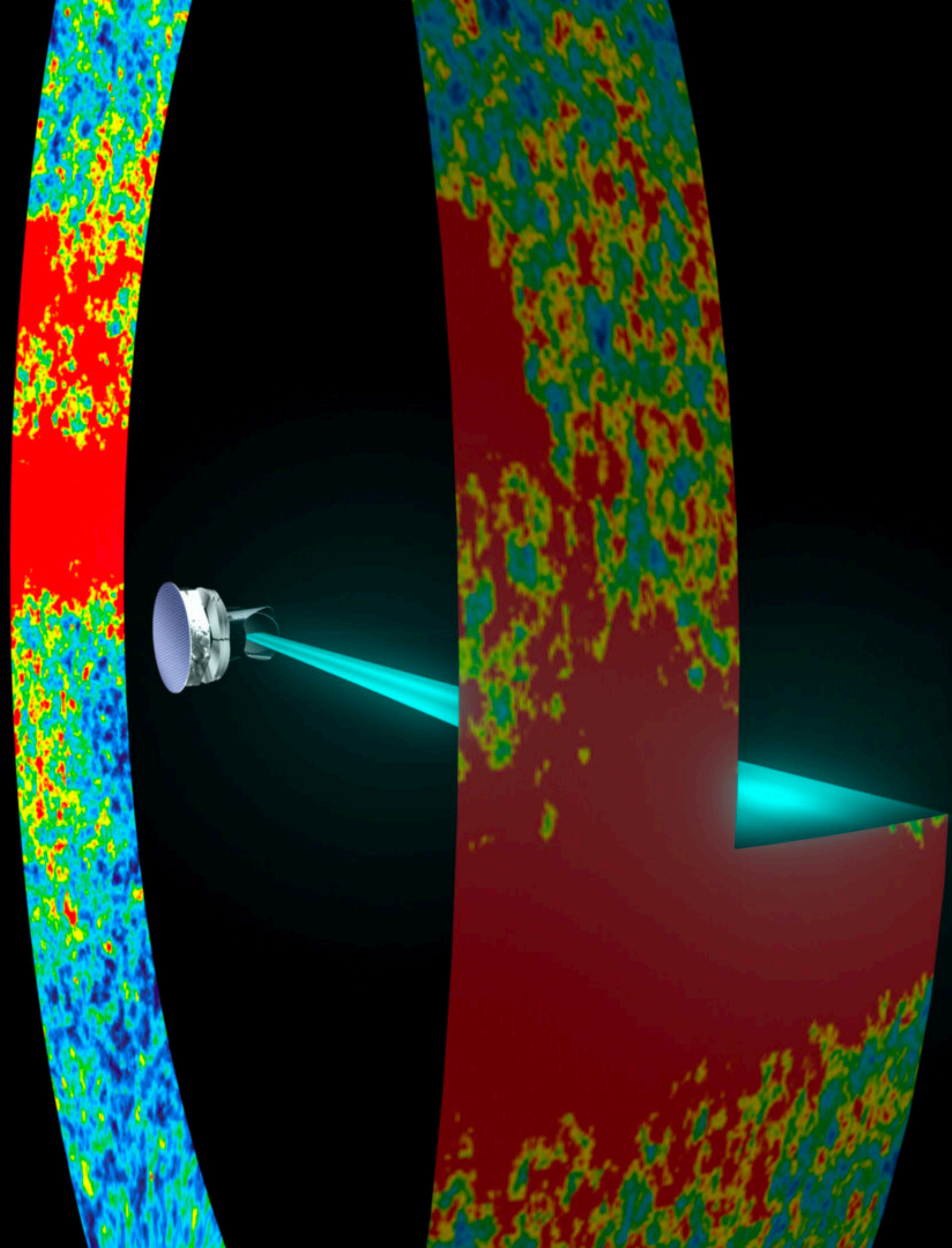




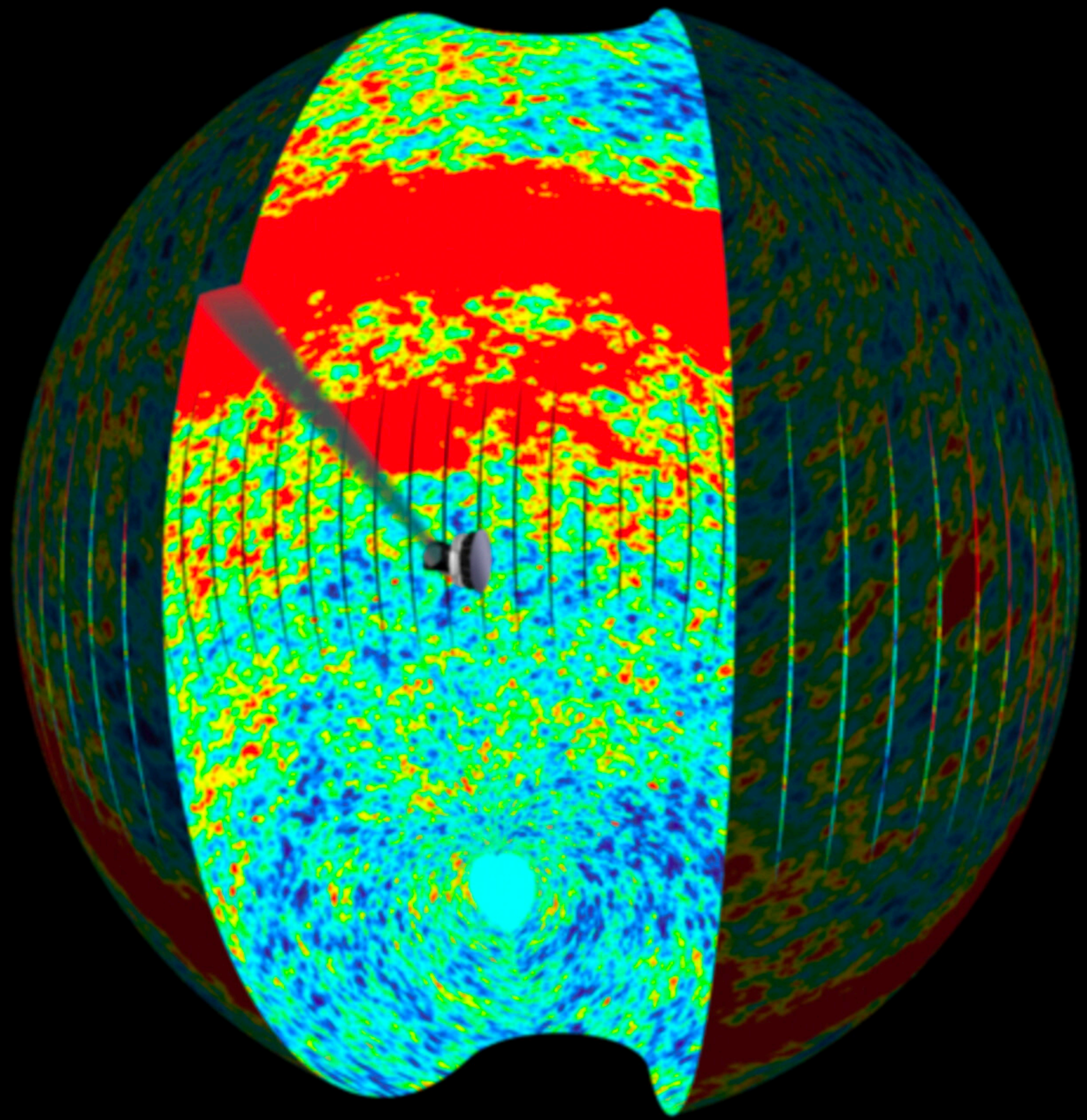


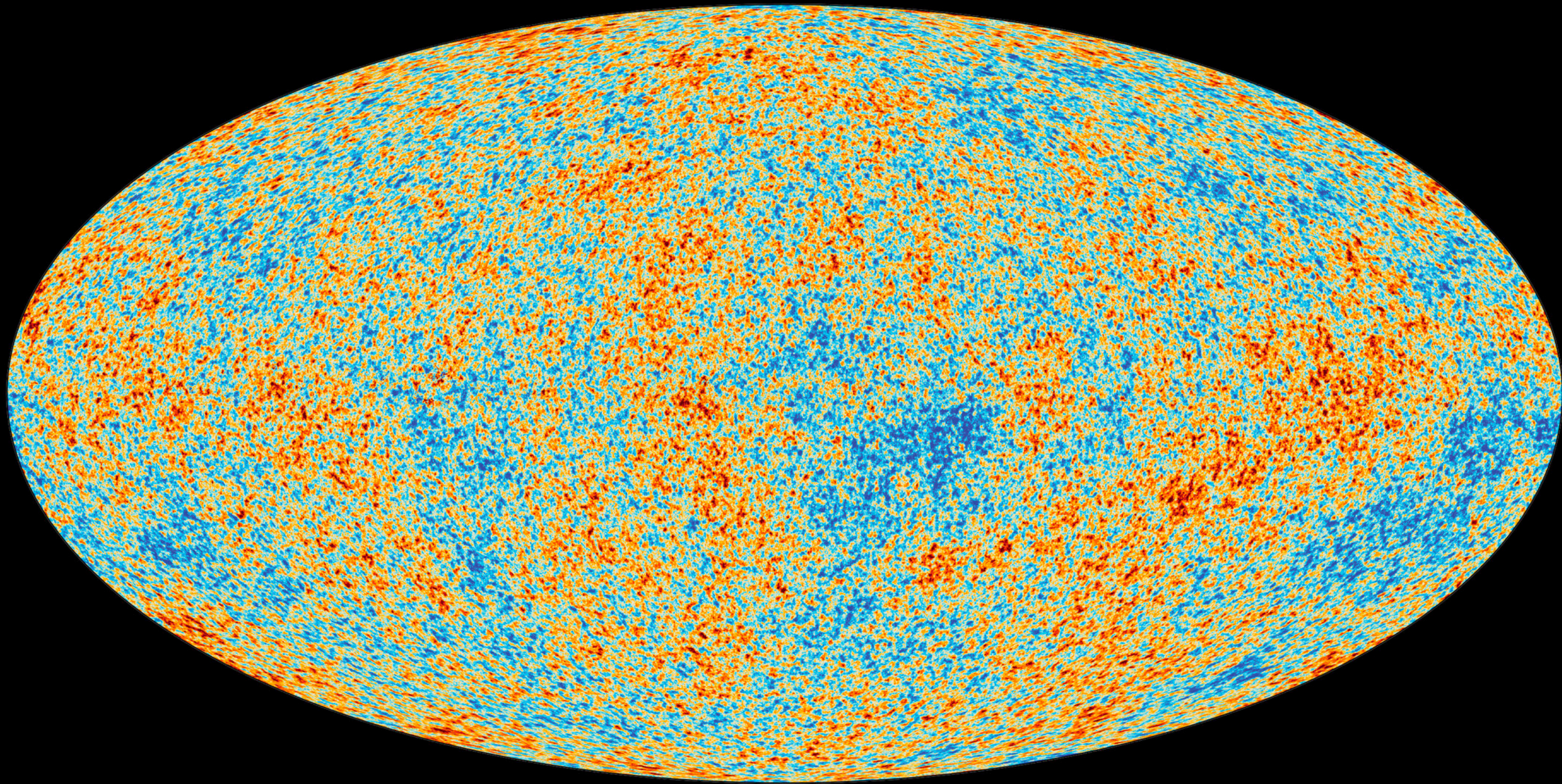


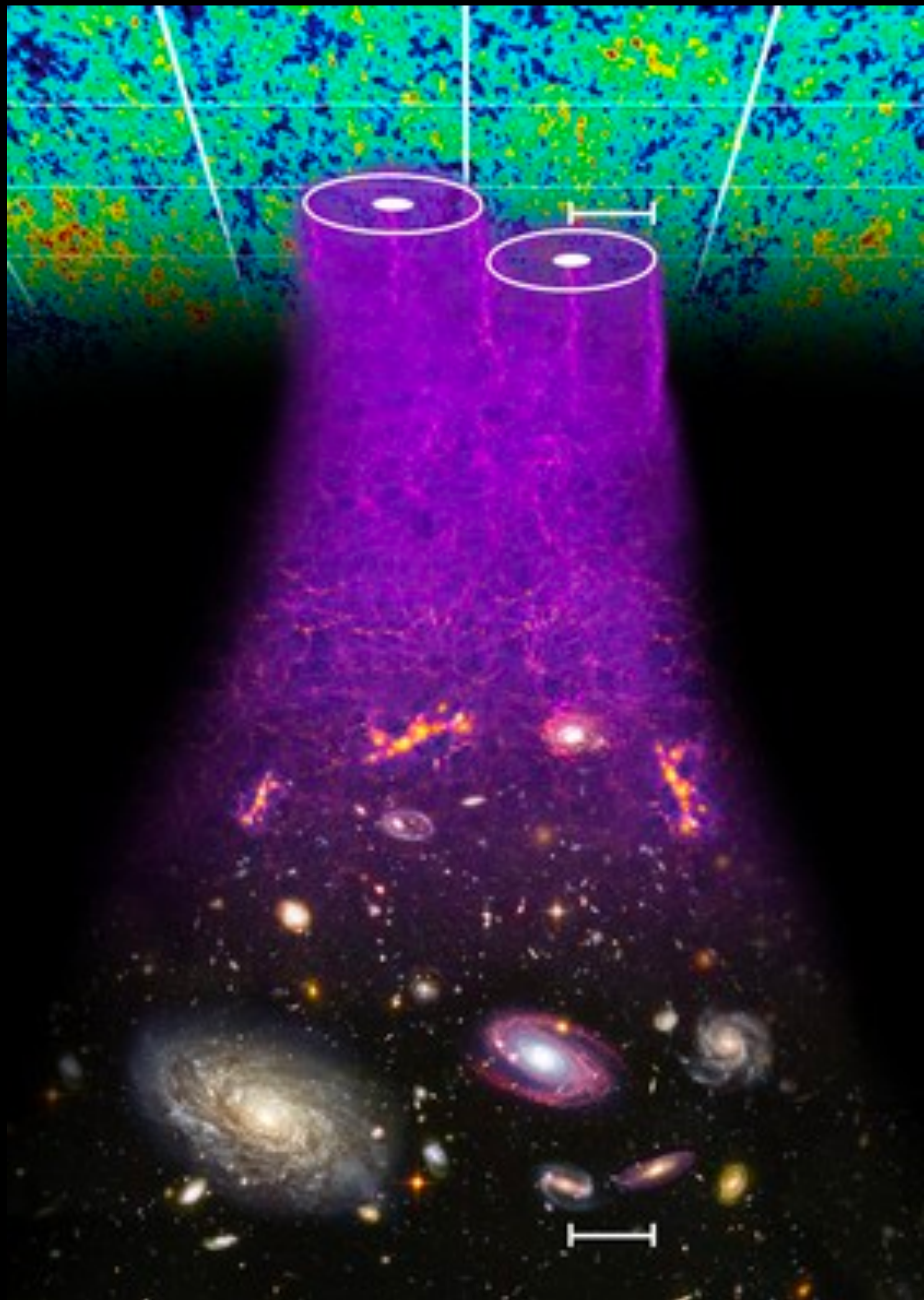












BAO:

