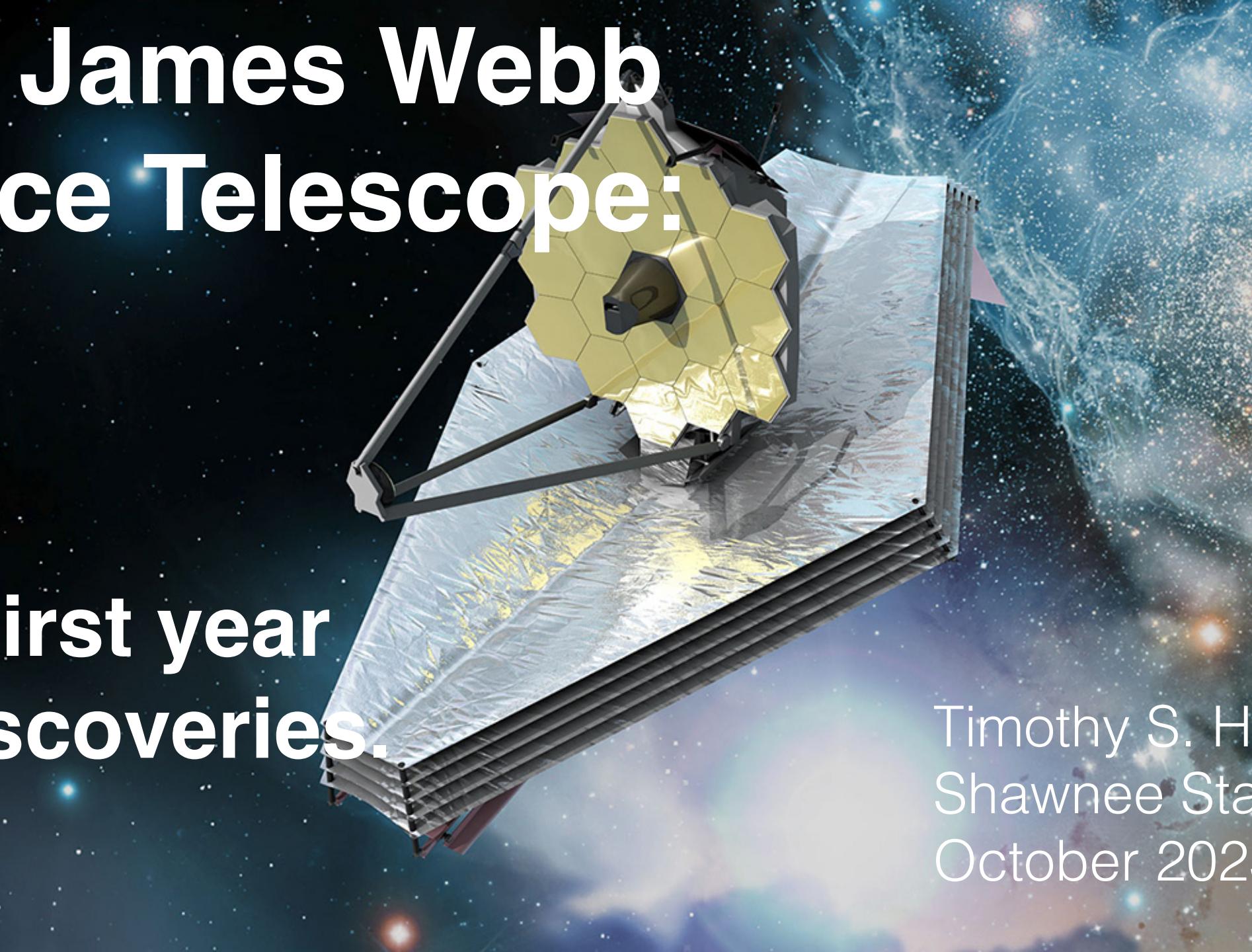


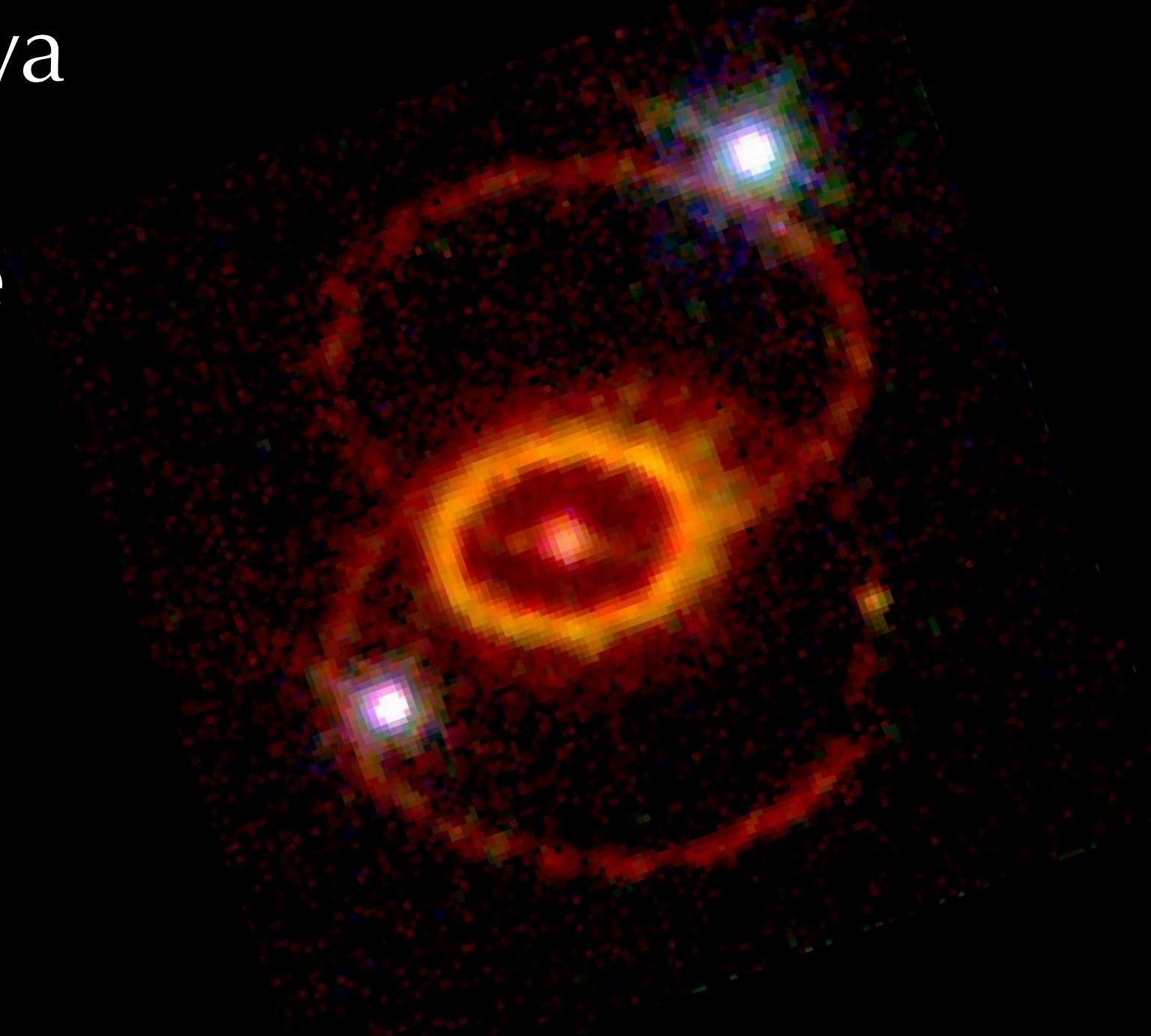
The James Webb Space Telescope:

The first year
of discoveries.



Timothy S. Hamilton
Shawnee State Univ.
October 2023

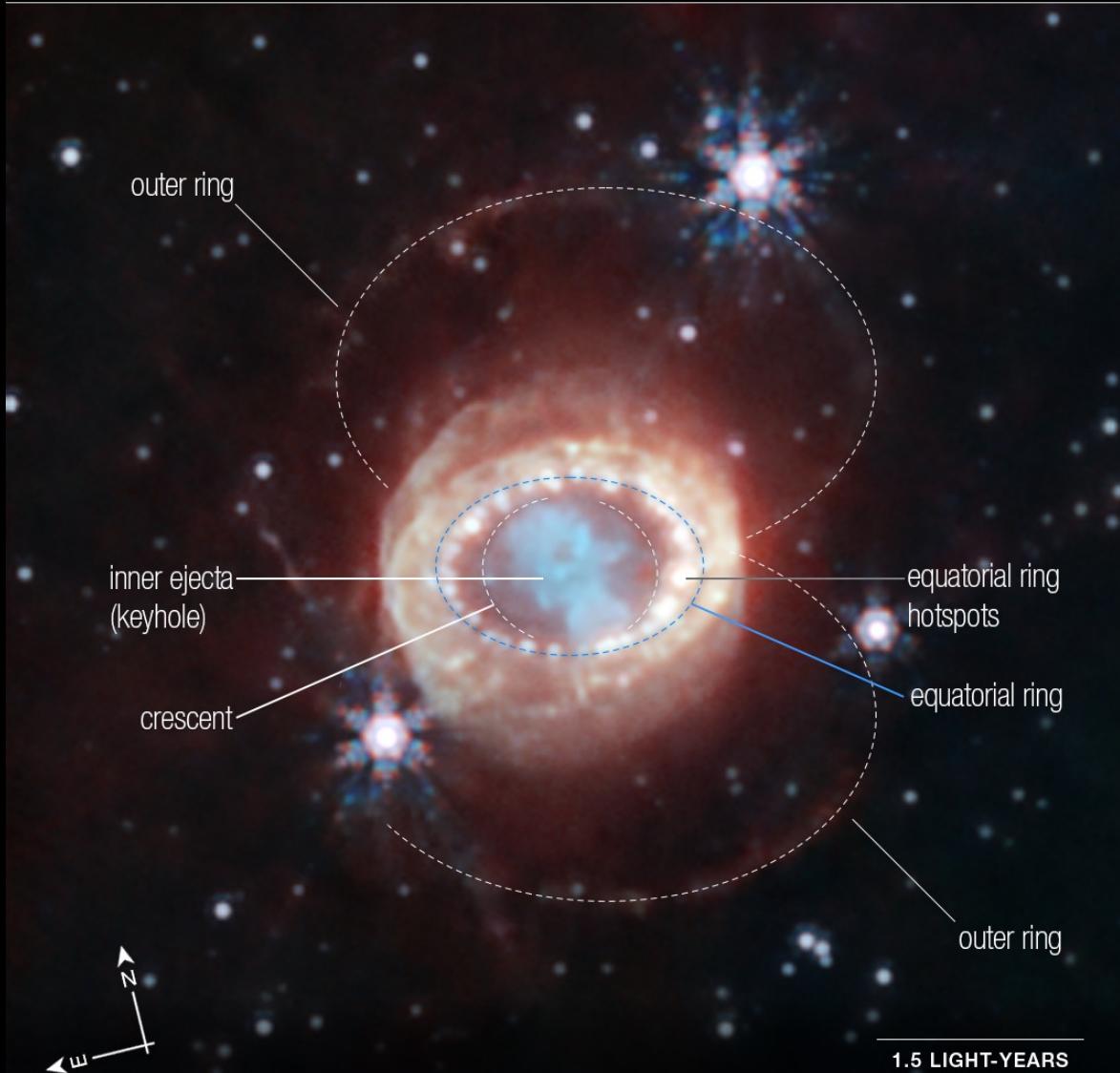
Supernova
1987A
Hubble
1994



Supernova
1987A
Webb
2023



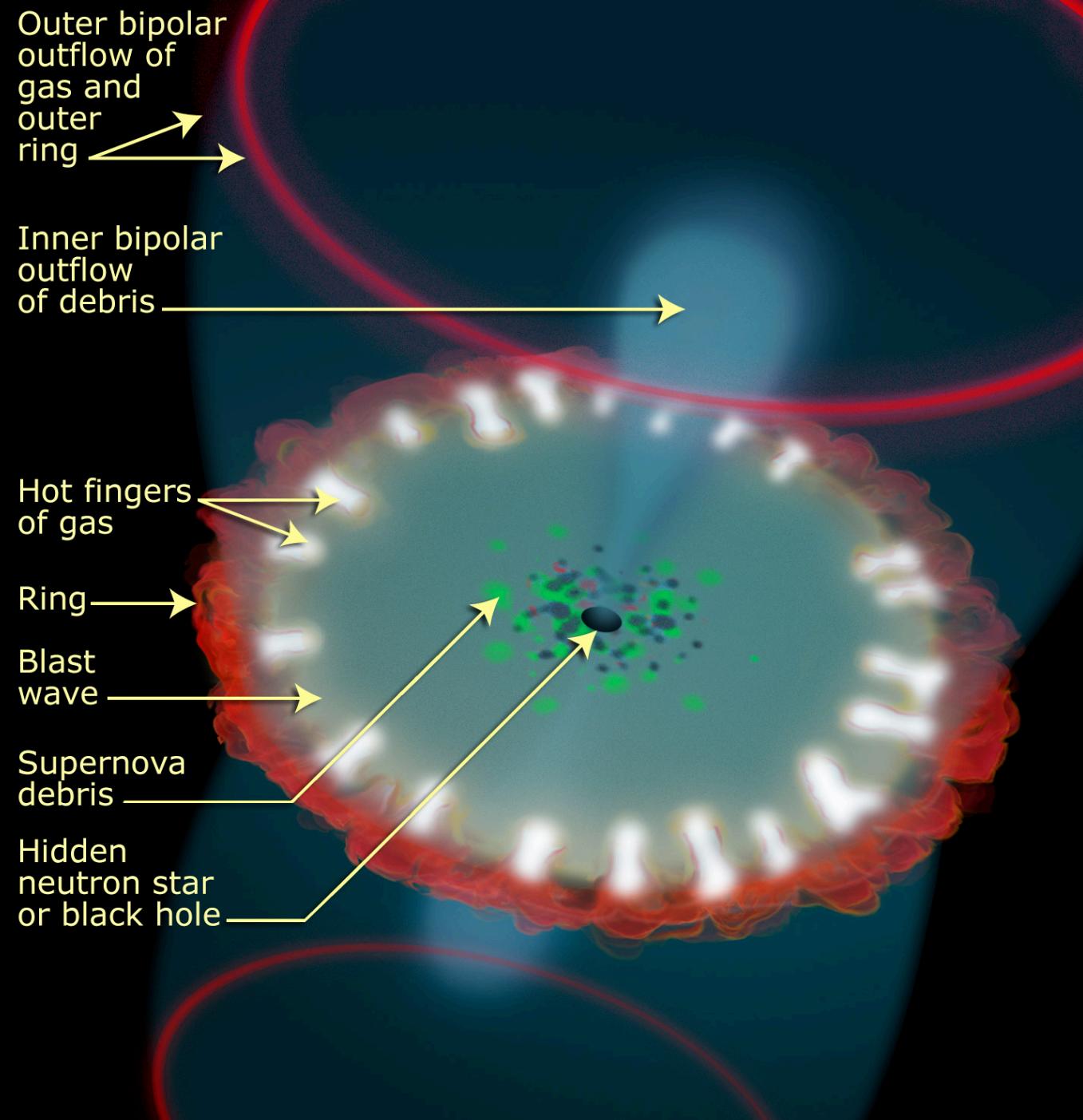
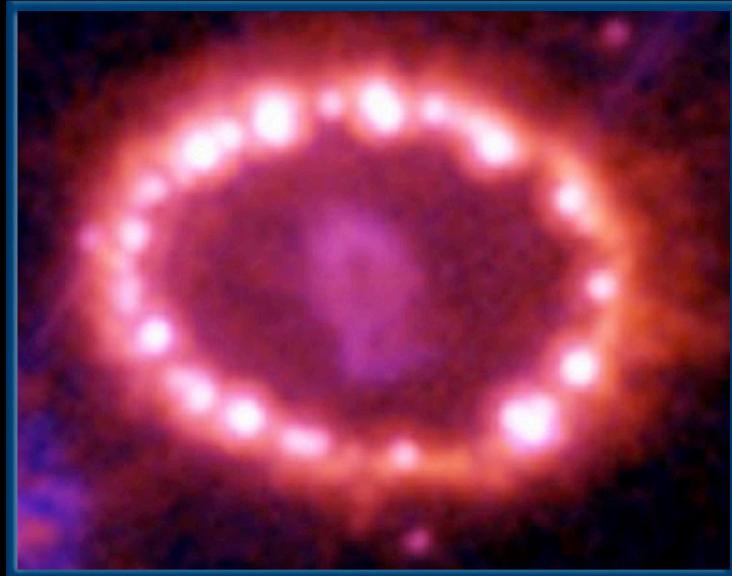
JAMES WEBB SPACE TELESCOPE
SUPERNOVA 1987A



NIRCam Filters

F150W F164N F200W F322N F405N F444W

Inner debris of the Supernova 1987A (SN 1987A) ring



Herbig-Haro HH 211

Webb 2023



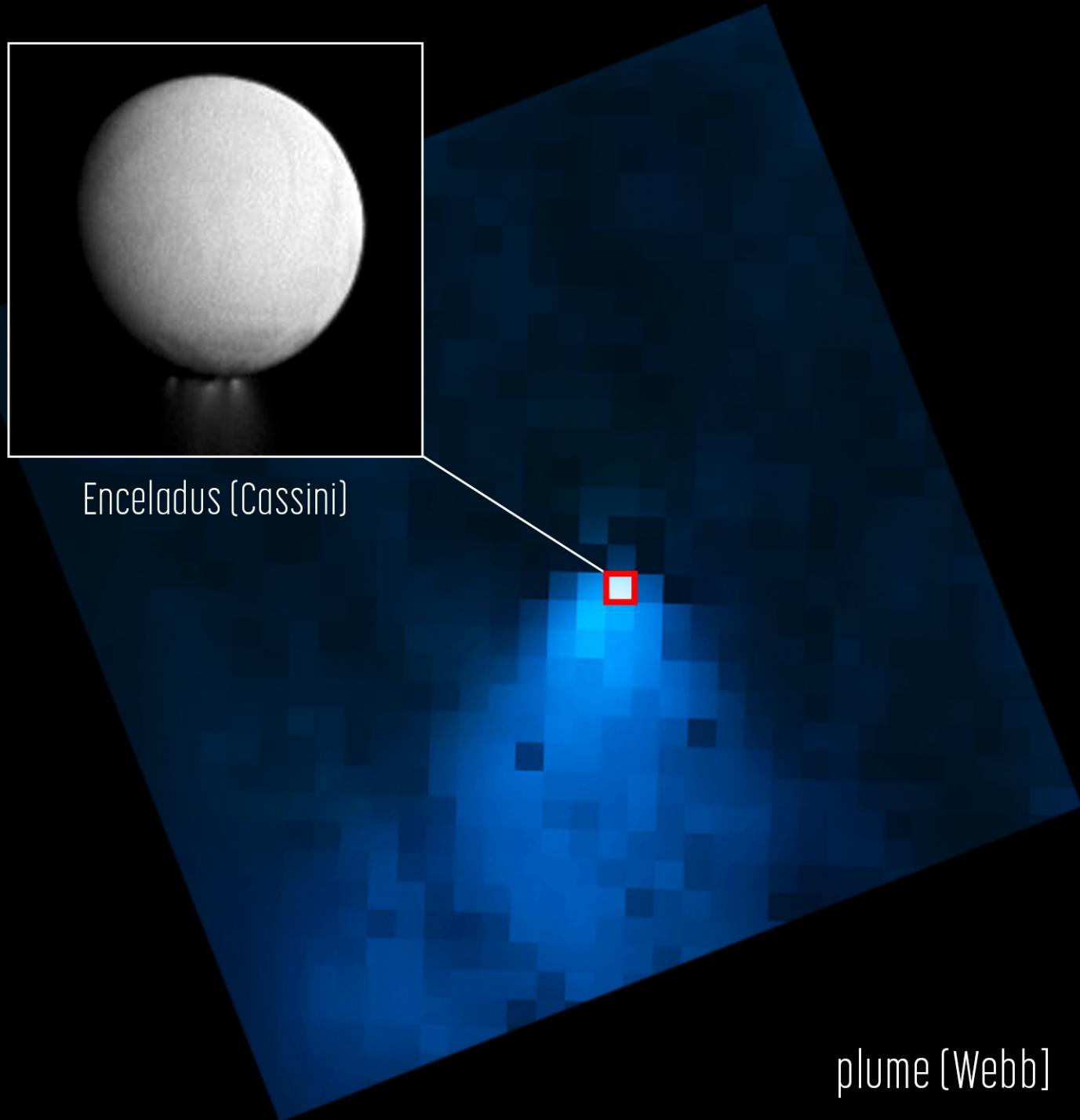


Cartwheel Galaxy
Hubble 1996



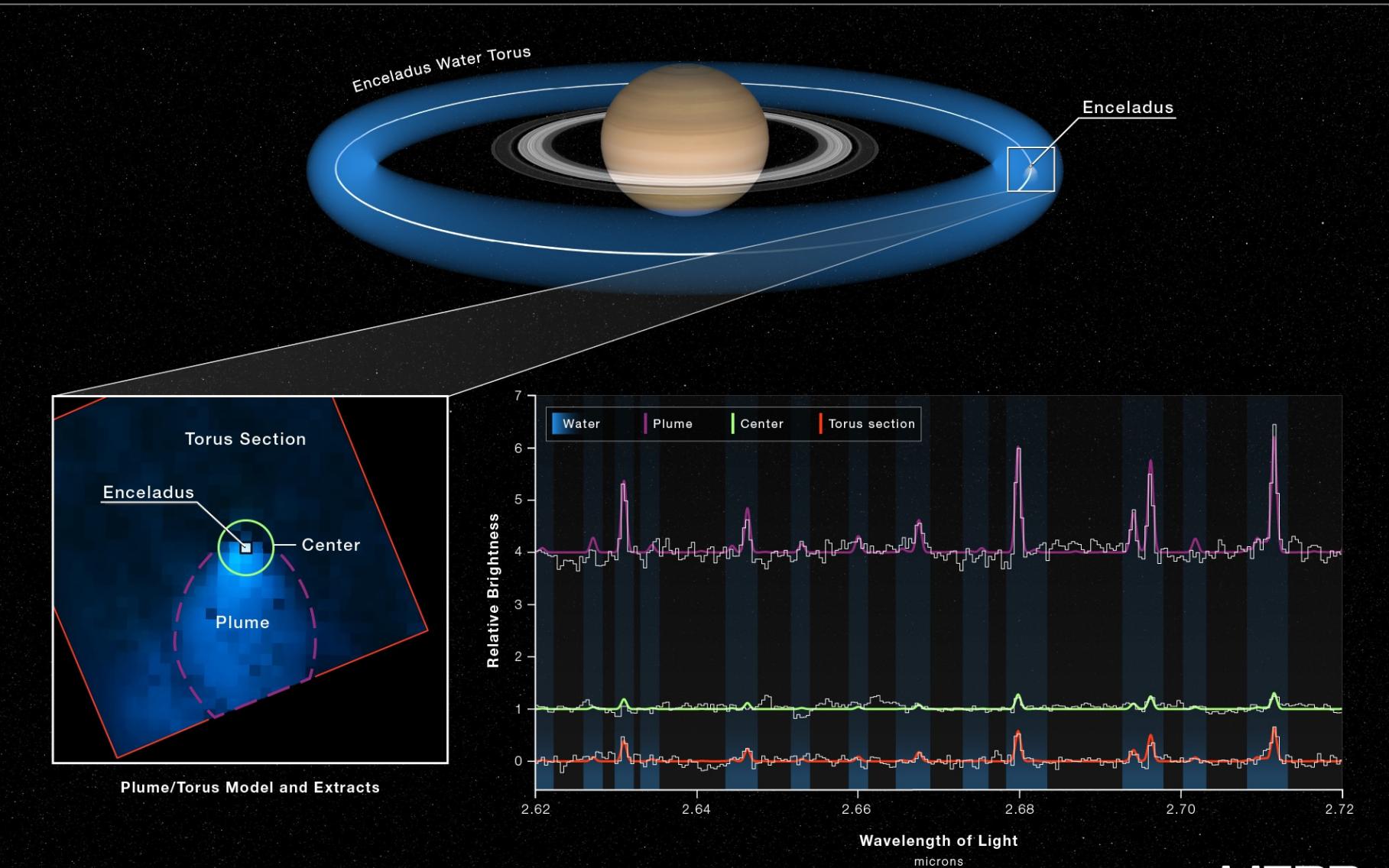
Cartwheel Galaxy
Webb 2023

Enceladus



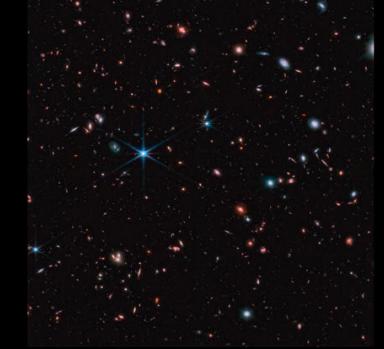
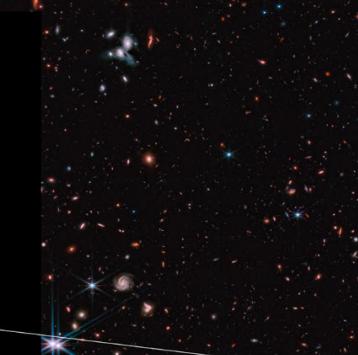
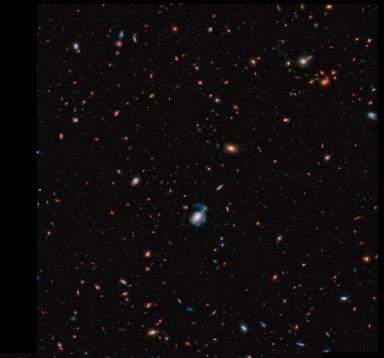
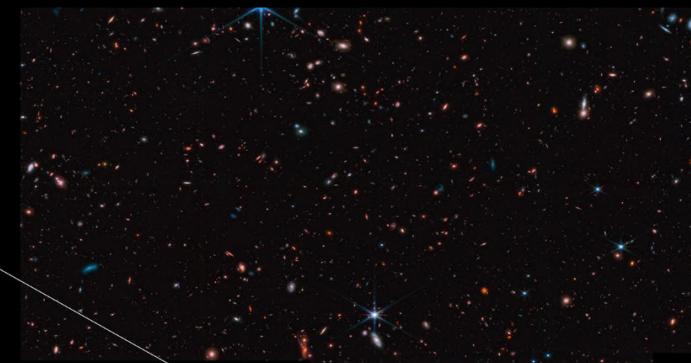
SATURN'S MOON ENCELADUS
WATER EMISSION SPECTRUM

NIRSpec | IFU Spectroscopy

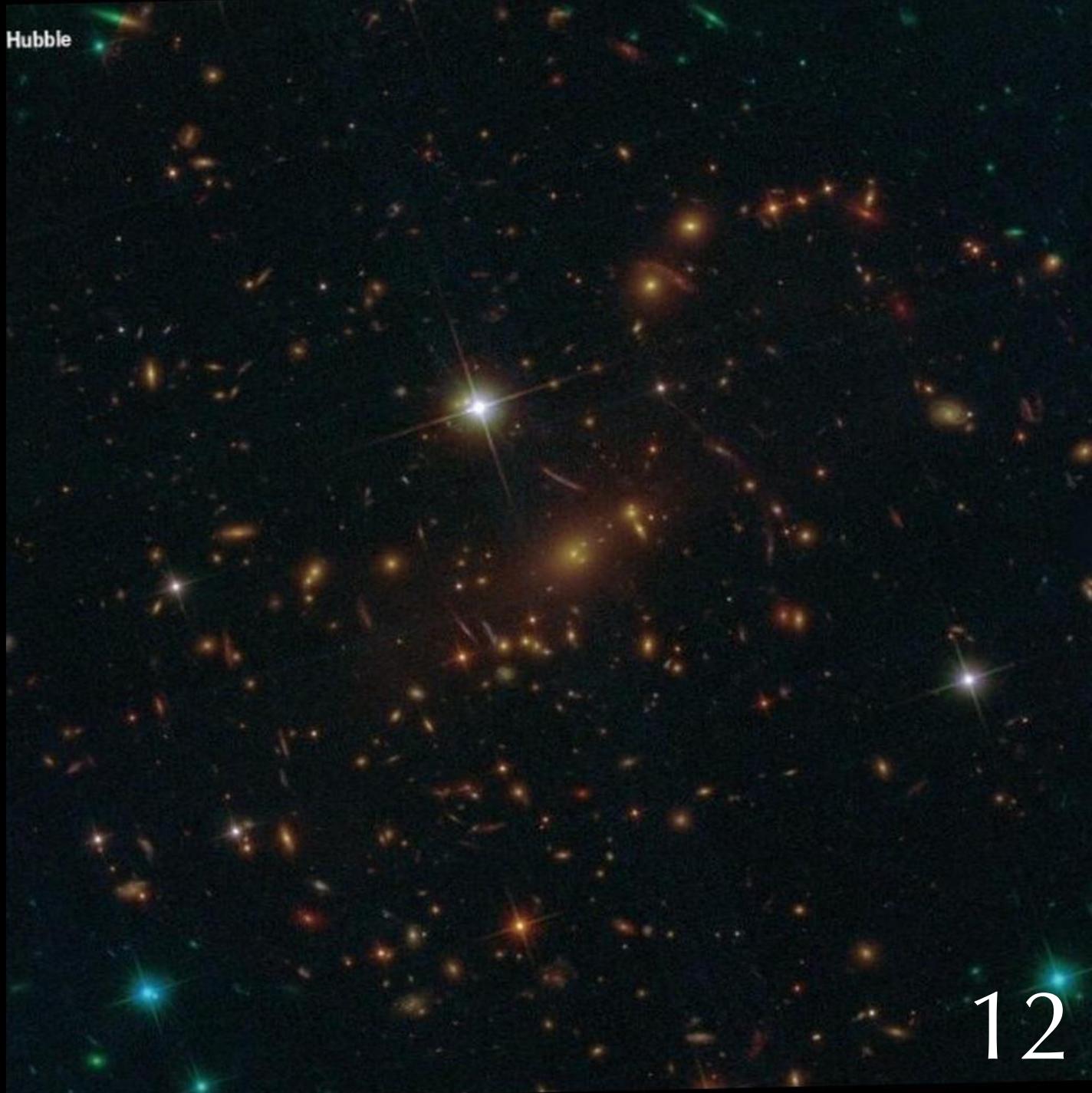


Maisie's Galaxy:

The most distant galaxy known*



Hubble: SMACS 0723 2017



Webb:
SMACS 0723
2022

