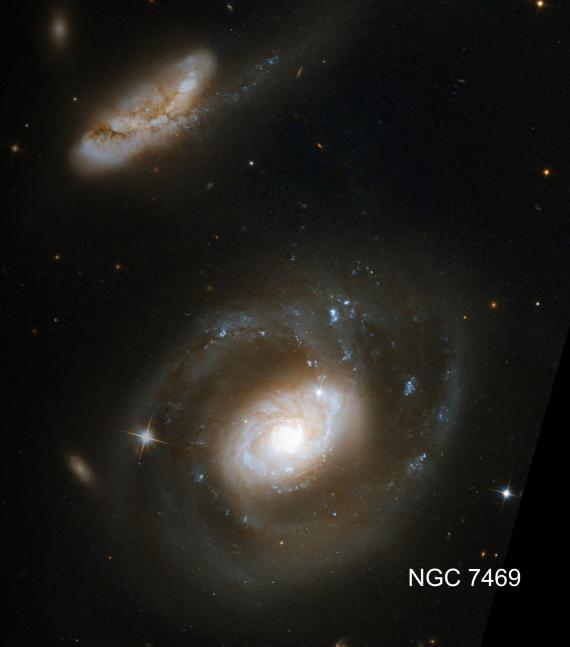
Unveiling the Dusty Hearts of Galaxies with JWST

Vivian U

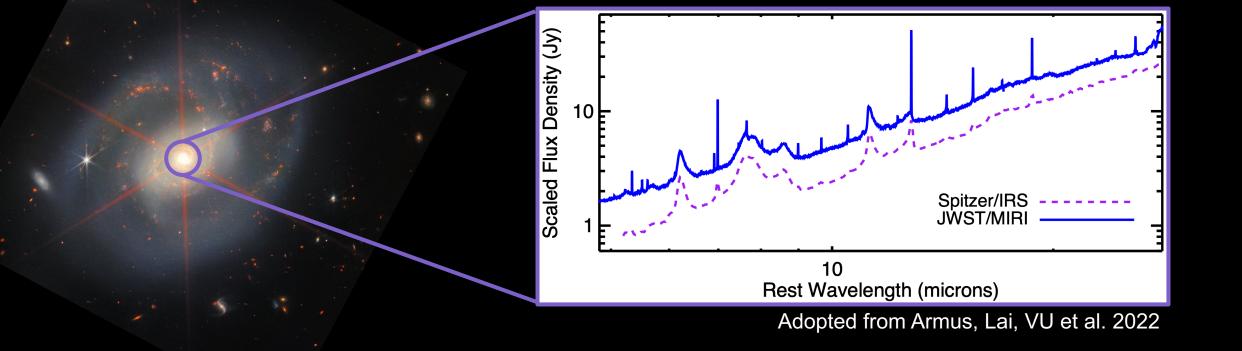
University of California, Irvine

GOALS Collaboration U et al. 2022, ApJL, 940, L5

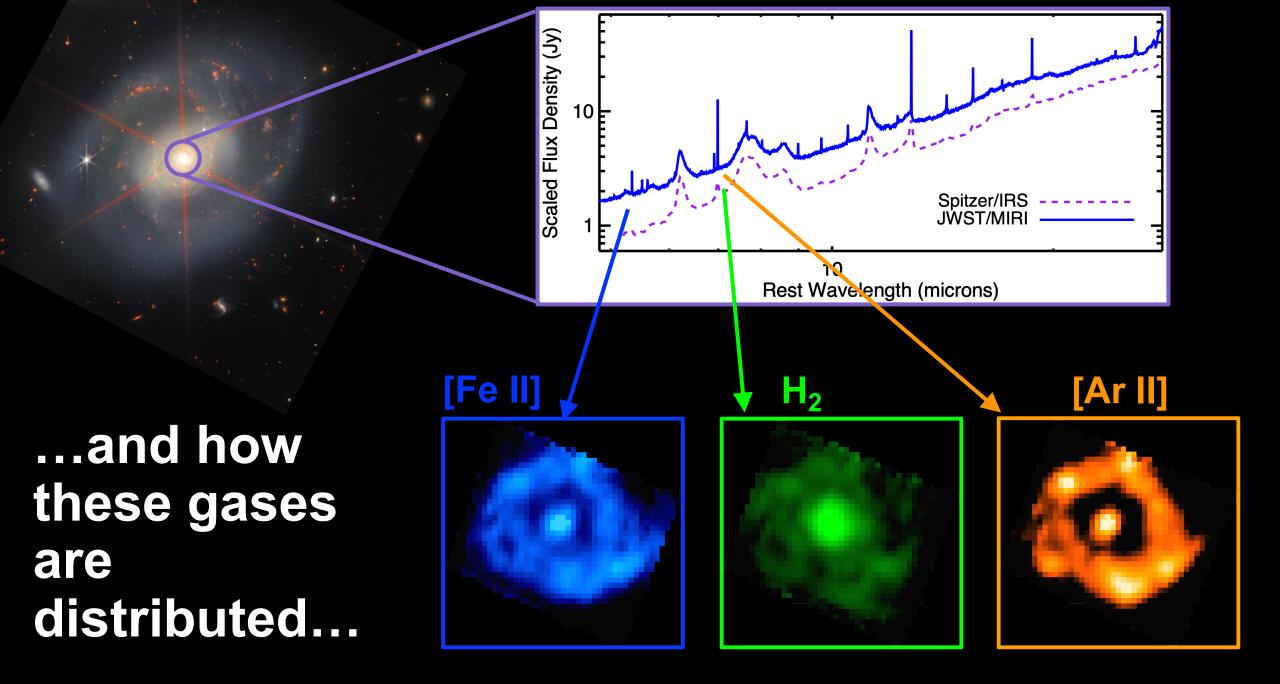


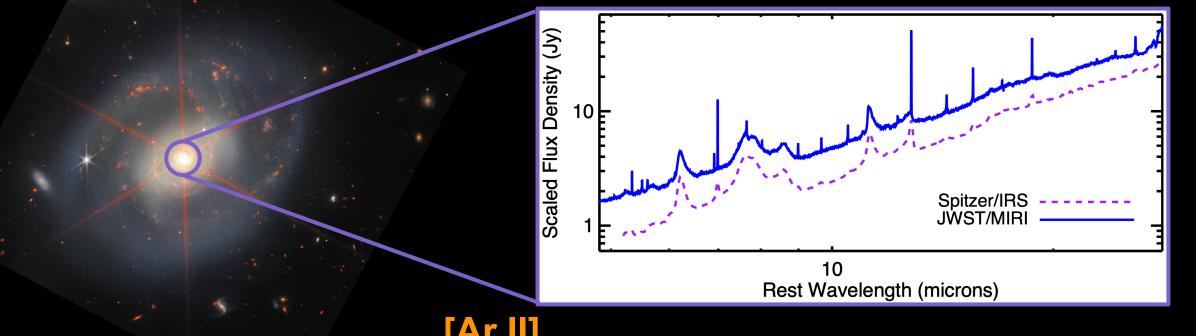
NGC 7469 harbors an active supermassive black hole and a star-forming ring at its center.

As viewed by HST (Optical Light) As viewed by JWST (Infrared Light) AAS 241 Press Conference vivianu@uci.edu

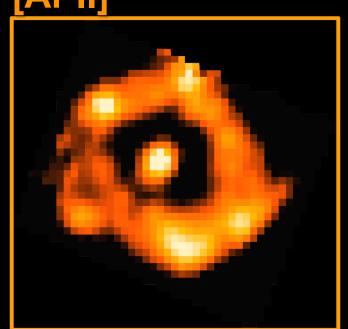


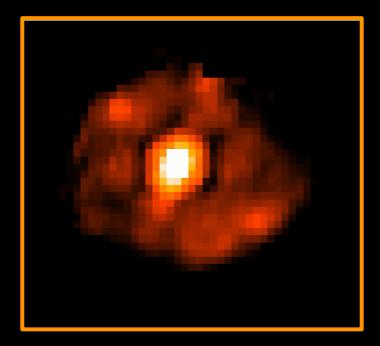
JWST MIRI shows us what cool gases are there...

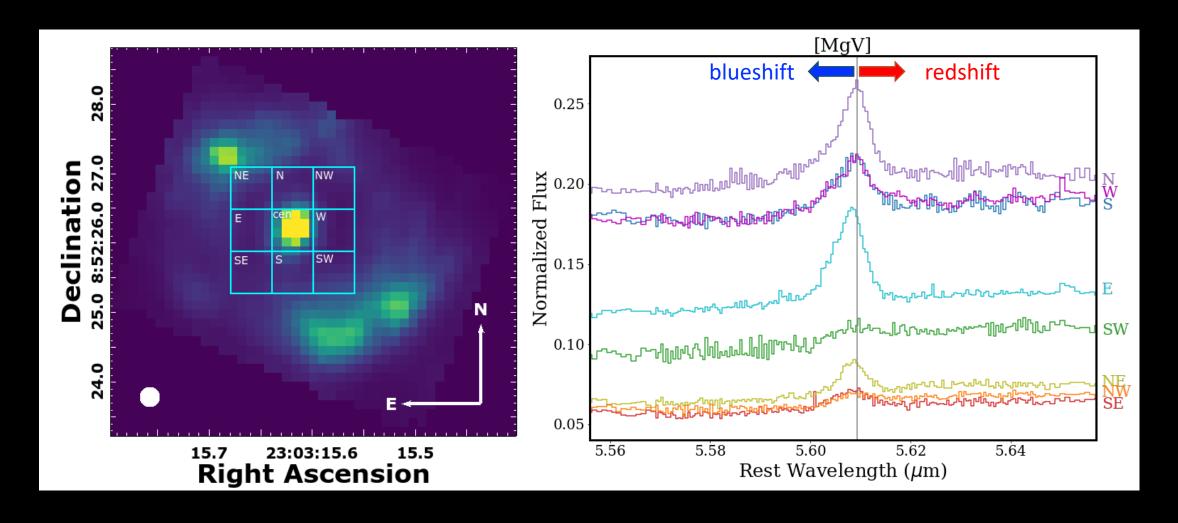




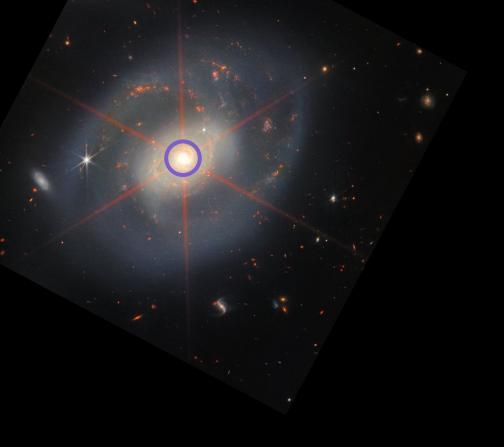
...as well as how the gases may be moving!



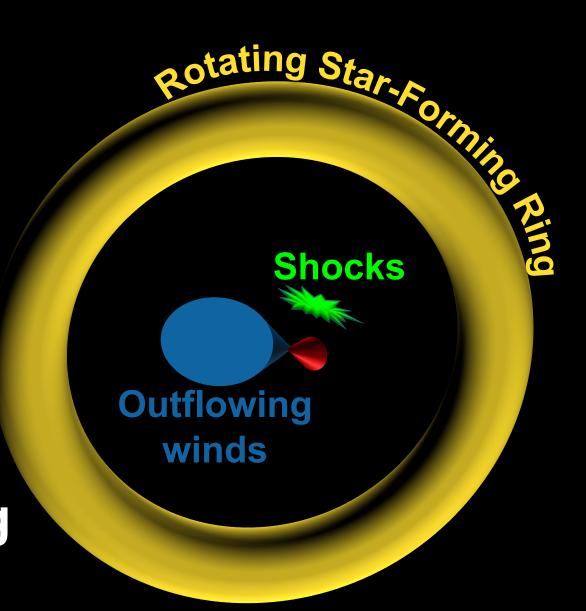




Blueshifted coronal line indicates the presence of highly-ionized winds driven by the active nucleus.

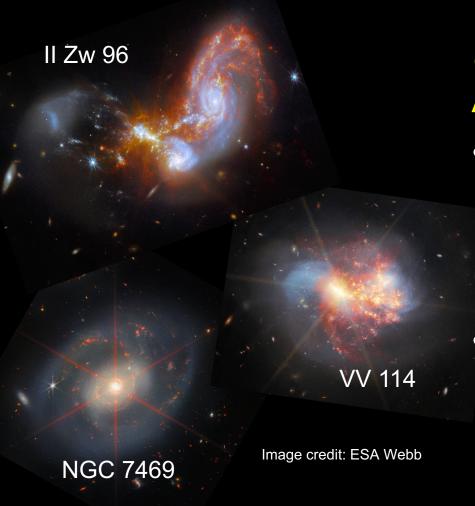


Outflowing gas is heating the surrounding medium via shocks.



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JWST is powerful in revealing the physics of the interplay between black holes and galaxies.



GOALS-JWST: ERS-1328 (Pls: Lee Armus & Aaron Evans), GO-1717 (Pl: Vivian U)

• First set of 8 papers have been accepted or published! Check out https://goals.ipac.caltech.edu/

• For more information on this paper (U et al. 2022), see the press release from UCI News: