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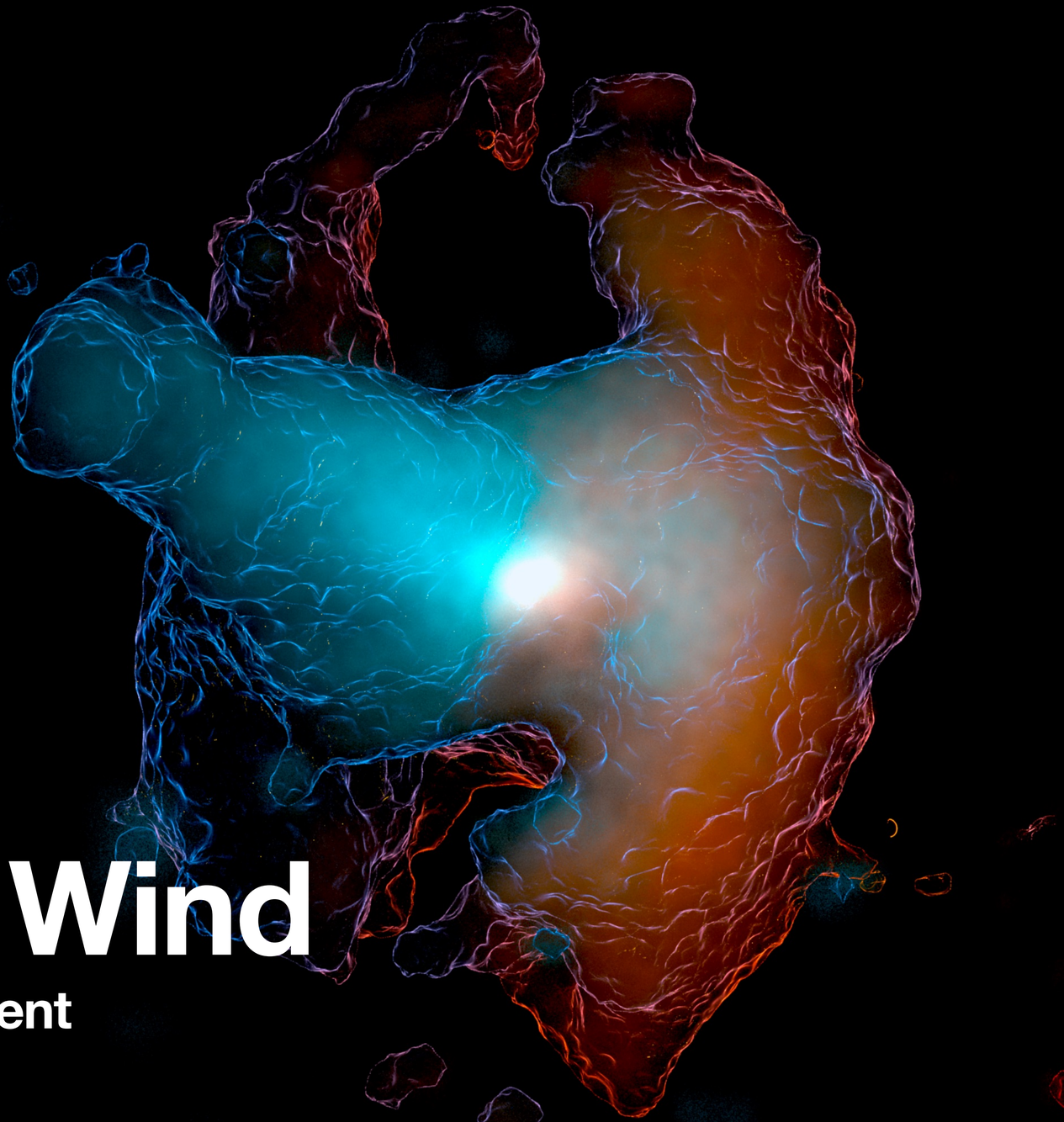
Rhodes undergraduates: Triet Ha, Shane Caraker, Jack Harper



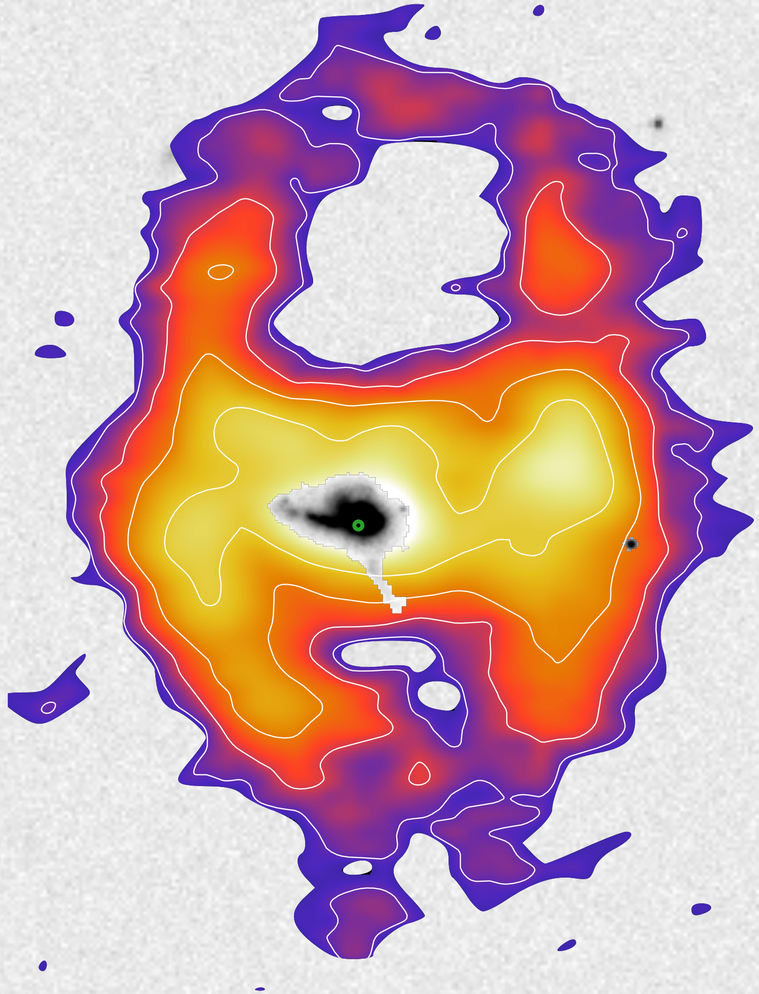
Growing in the Wind

Watching a Galaxy Seed Its Environment

Jim Geach/University of Hertfordshire

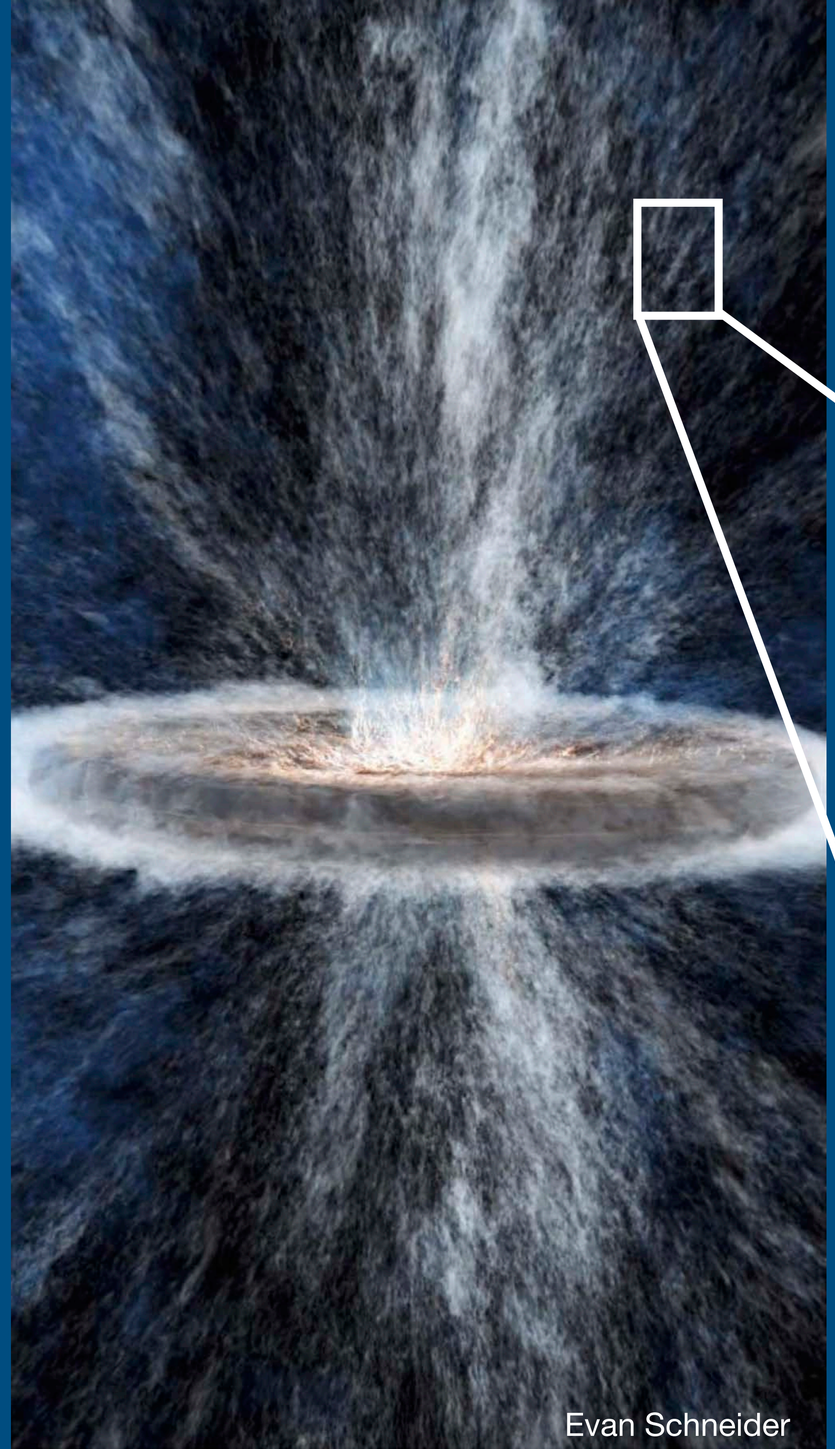
Makani is a Galaxy Seeding its Environment with Cool Clouds of Oxygen

300,000 light-years

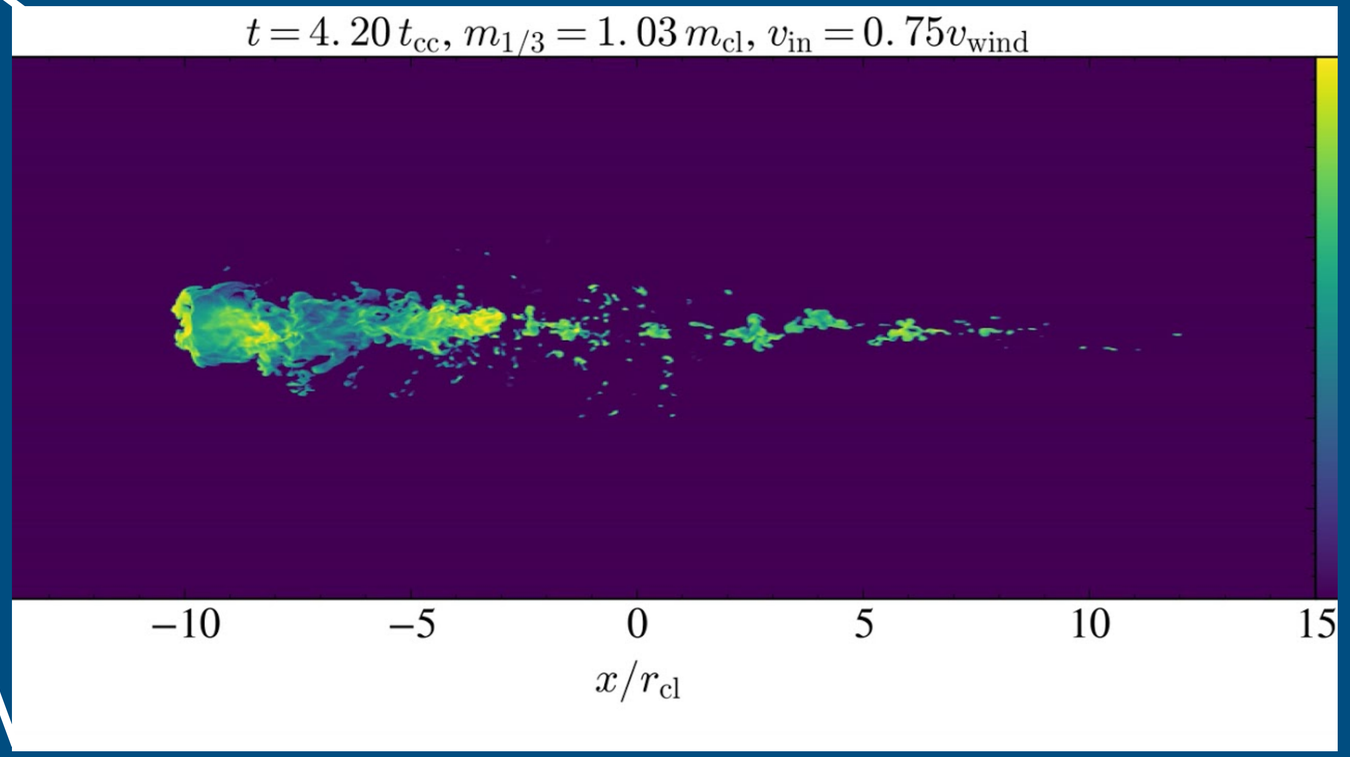


Observed in the light of O^{+1} emission lines

Cool Clouds: Shredding and Growing in a Hot Wind?

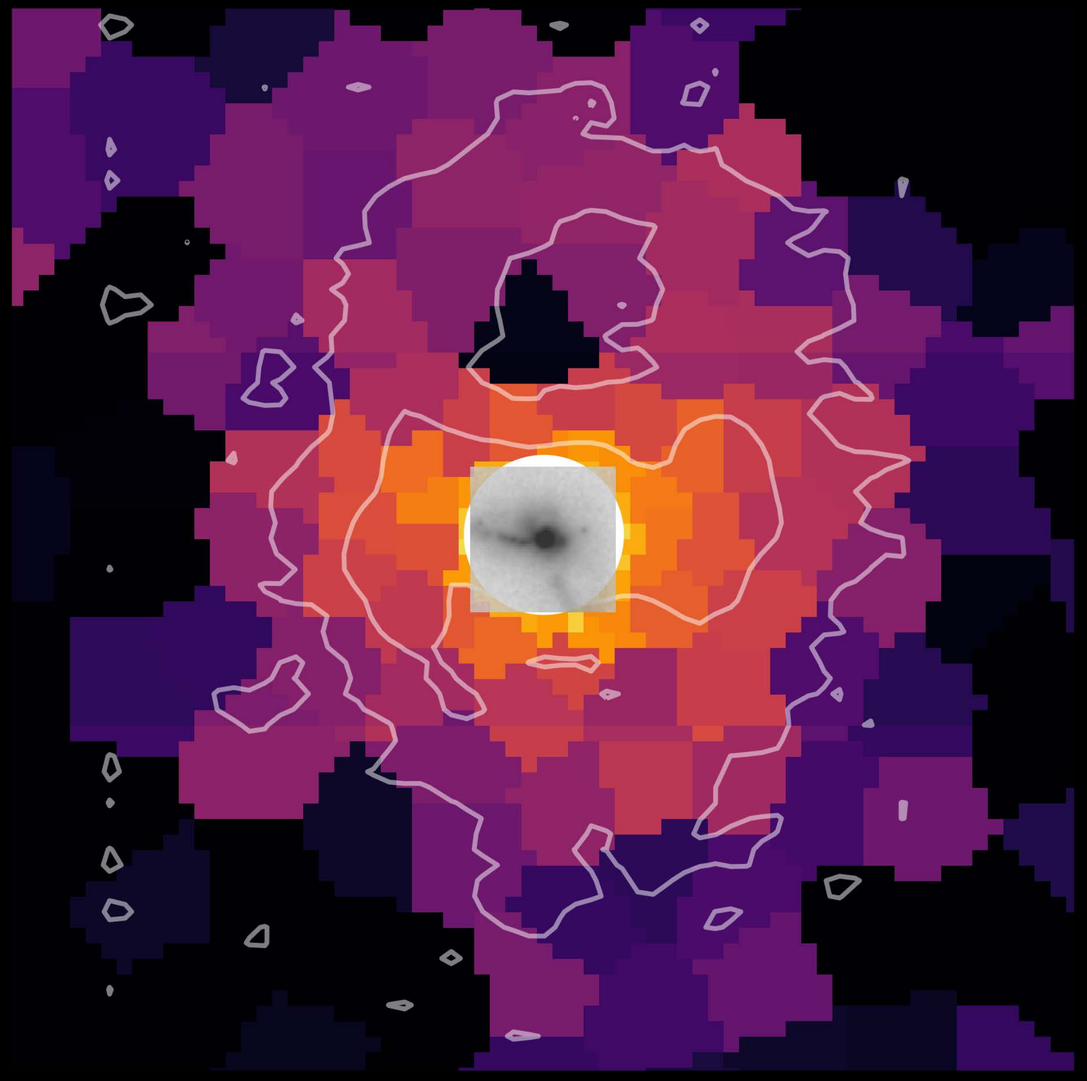


Evan Schneider

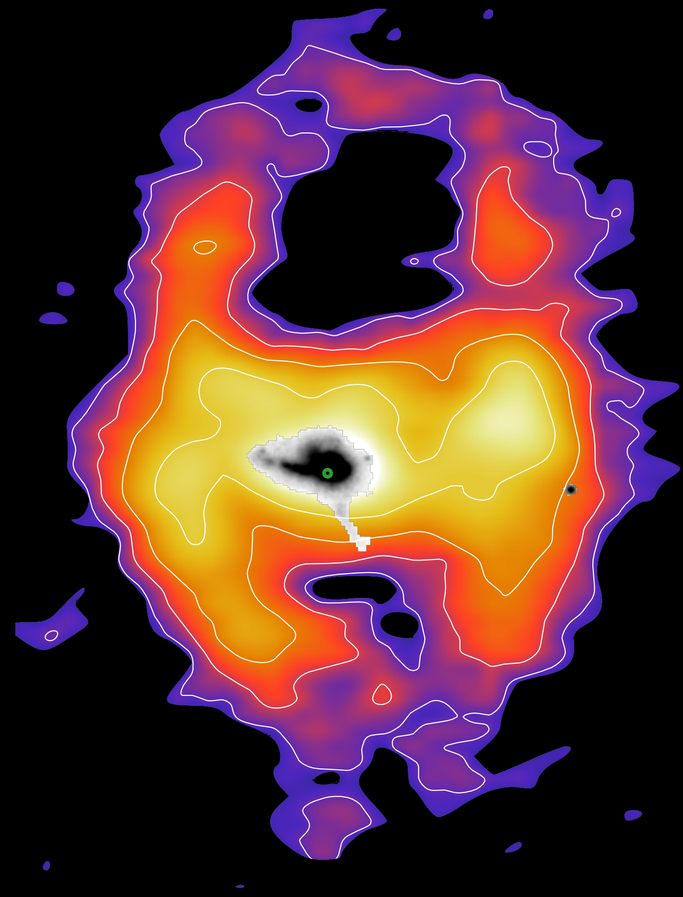


Max Gronke

A Hubble Image of Cool Clouds Growing in a Hot Wind

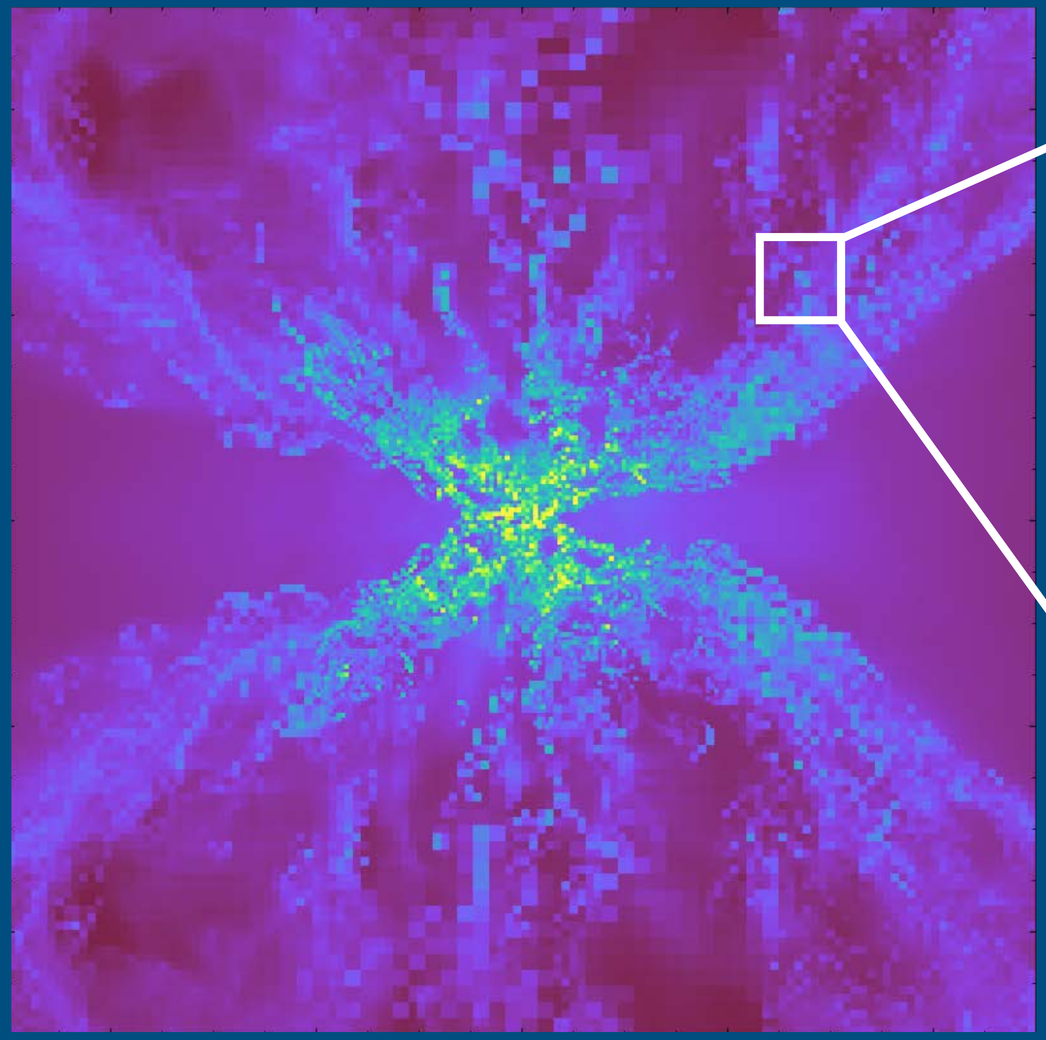


O^{+5} Emission Lines: 300,000 K gas

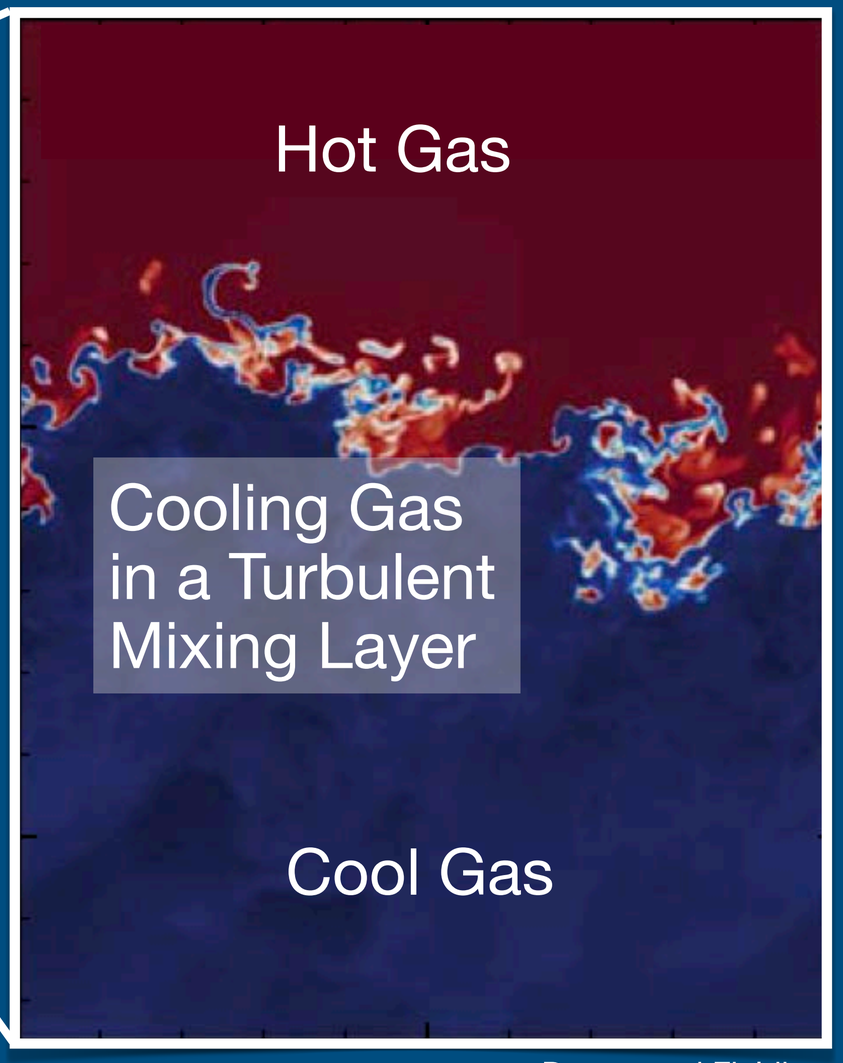


O^{+1} Emission Lines: 10,000 K gas

O^{+5} Emission is Strong in Cooling Clouds in Wind Simulations

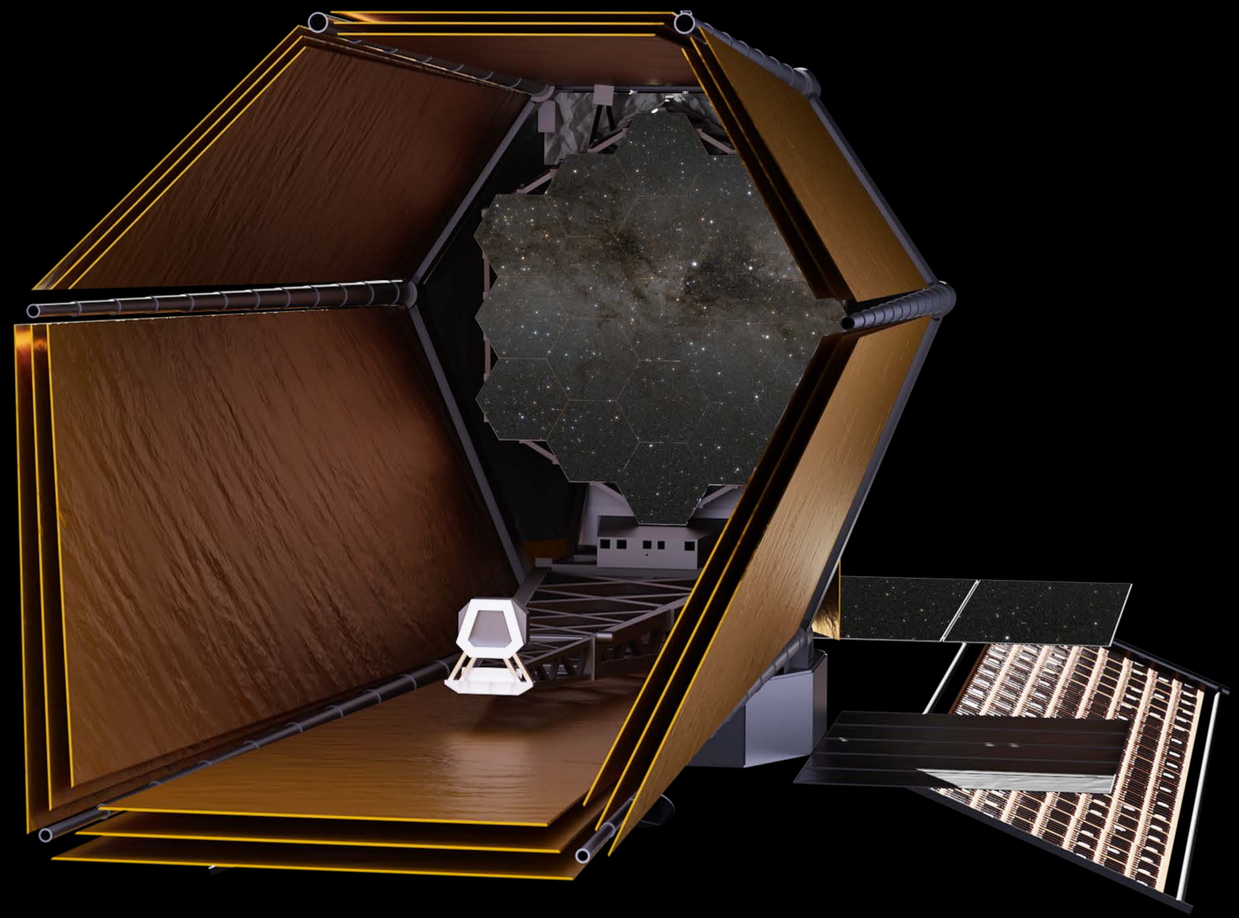


A Simulation of O^{+5} Emission



Drummond Fielding

Observing Warm-Hot Gas in Galactic Ecosystems is a Key Science Goal of the Habitable Worlds Observatory



Growing in the Wind: Watching Makani Seed Its Environment

Poster
405.02
Thursday 9am

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Ha, DR, et al. 2025
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