

What happens when galaxies collide?



Oxy Galaxy Group:

Tehreem Hai

David Simpson-Heil

Olivia Yang

Professor Stierwalt

Past Members:

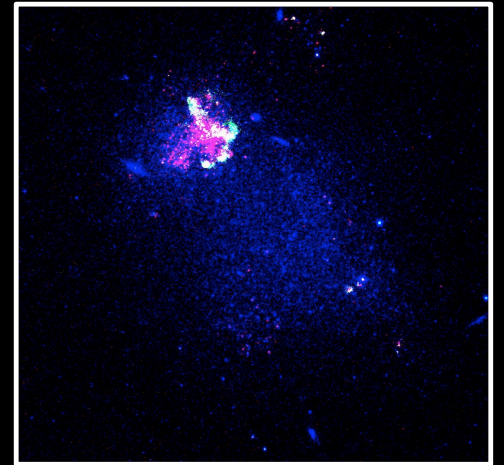
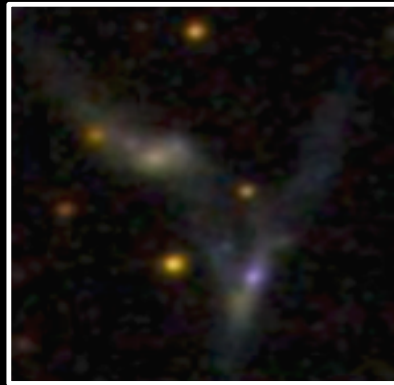
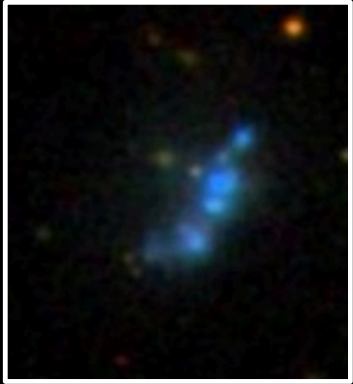
Antonio Correa

Izzy Thomas

A composite image showing a radio telescope array at night. The foreground features several large, white, parabolic radio telescope dishes mounted on metal structures, some with green lights. The background is a dark, starry sky with the Milky Way galaxy visible as a bright, cloudy band of stars and dust stretching across the frame. The text "Why study the universe?" is overlaid in white serif font in the center.

Why study the universe?

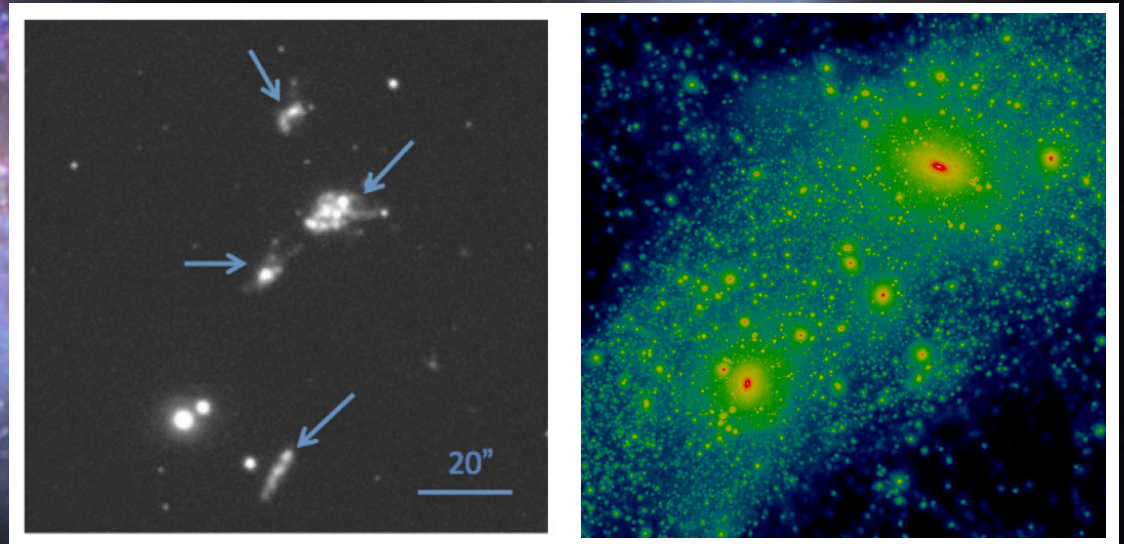
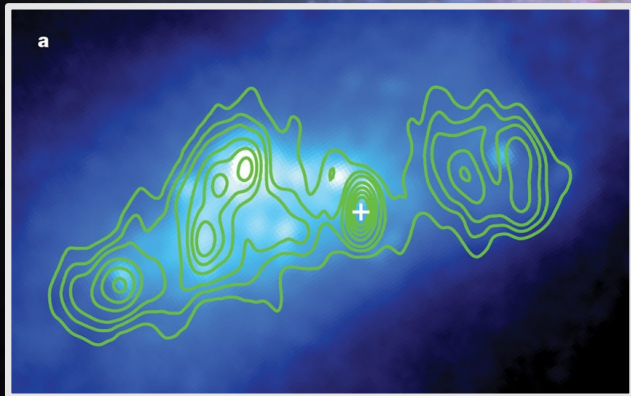
Sabrina Stierwalt (Oxy Physics)



NSF Grant: What was star formation like when the universe was young?

NSF Grant: How well do our observations of dwarf groups match predictions from cosmological simulations?

NSF Grant: Do we find active black holes in merging dwarf galaxies?



What we do in the OGG (Oxy Galaxy Group):

- Analyze astronomical images by coding in Python
- Have weekly journal club discussions to talk about the bigger picture science
- Participate in the URC summer program
- Present results at national conferences
- Take data at national/international observatories



Tehreem Hai ('23)



Sophomore presents research at American Astronomical Society Conference

Hubble Space Telescope Grant: What triggers starbursts in dwarf galaxies?



Traveling Planetarium

Because the night sky
belongs to all of us