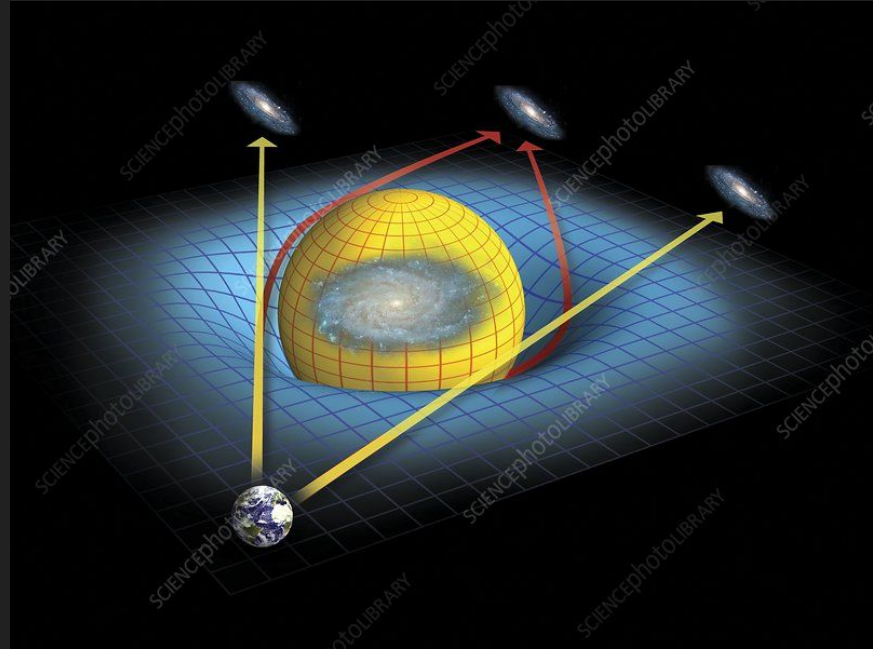# Gravitational Lensing

RCS0224-0002.5
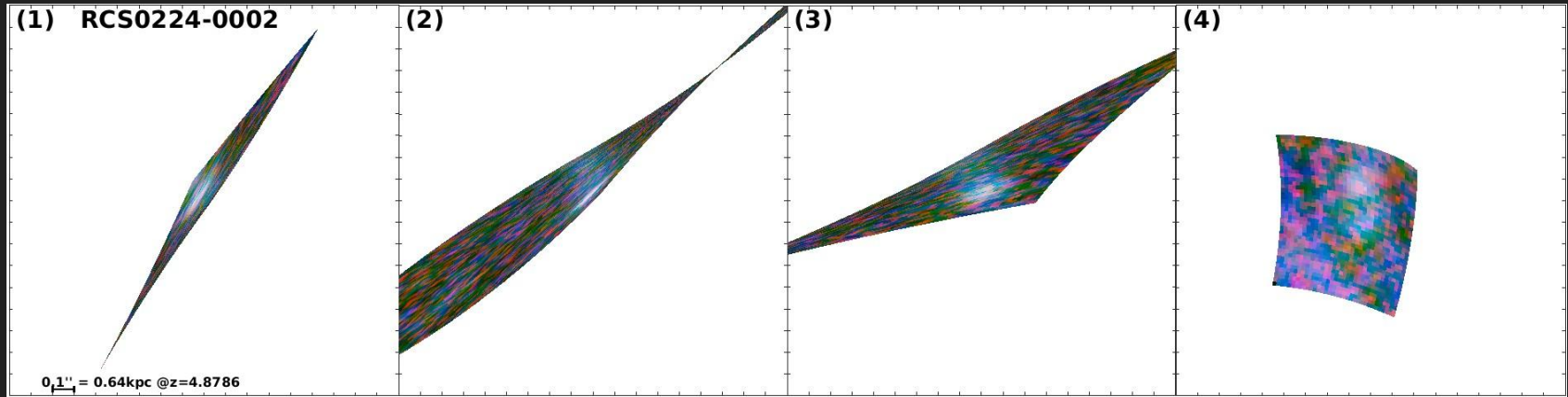
A Quick Overview

- What is gravitational lensing?
- How can we use it?
- What are we using lensing for with RCS0224-0002?
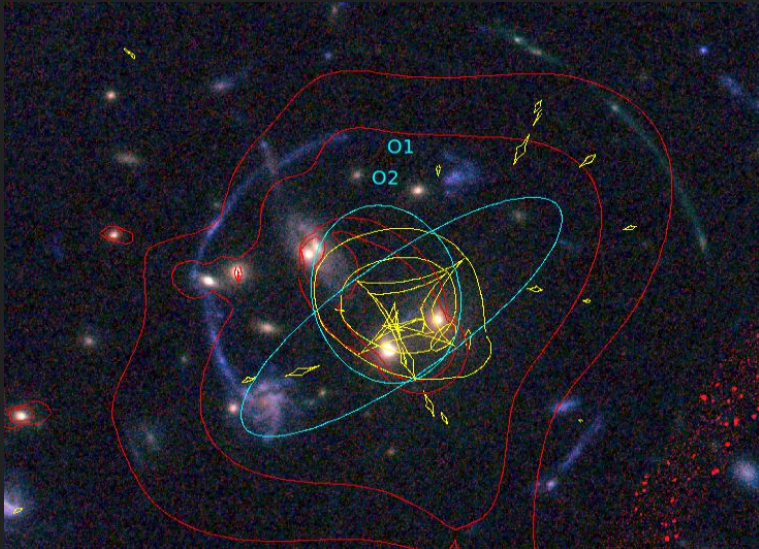
How might we use lensing models?

- Source plane reconstruction
- Determine state of merging gasses

(1) RCS0224-0002

0.1'' = 0.64kpc @z=4.8786

(2)

(3)

(4)

Speed bumps

- Brightest Cluster Galaxy (BCG) dark matter halos

- Central arc

Current progress

- Image plane minimization

- Finalizing the lensing model