

Fabry-Perot Imaging of RESOLVE galaxies

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RESOLVE

Goals

- Measure dynamical masses for galaxies as part of the RESOLVE project
- Look for asymmetric gas flows (bars, warps, etc)
- Use the large aperture of SALT to push down to low surface brightness dwarfs

Observations to date

- 30 objects observed
- Reduced through wavelength calibration for 14 galaxies
- 16 galaxies with problems with their observations or reductions

Reduction Steps

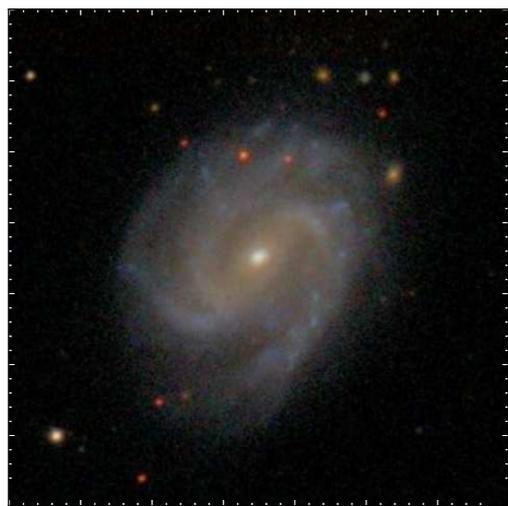
Mix of PySALT and python scripts

- Masking the data
- Flat field correction based on low order surface fits to the data themselves
- Seeing correction
- Flux correction based on stars in the field
- Wavelength calibration

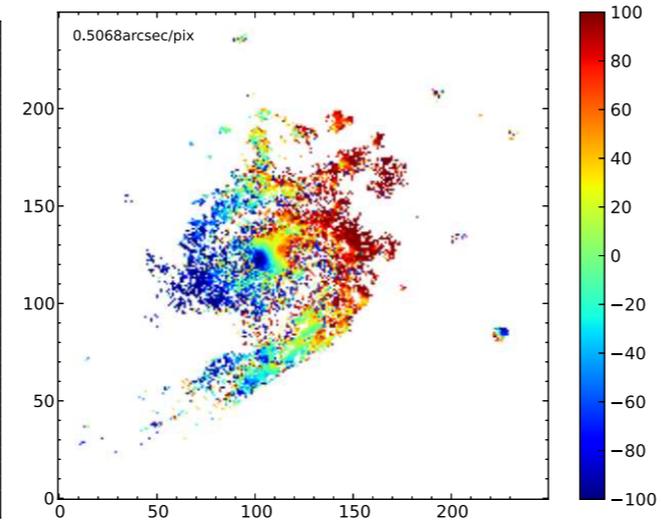
Analysis

All galaxies were then fit with *Diskfit* to measure the velocity profile. The galaxies were fit by three different models: rotational only, rotation + radial flows, and rotation+bar.

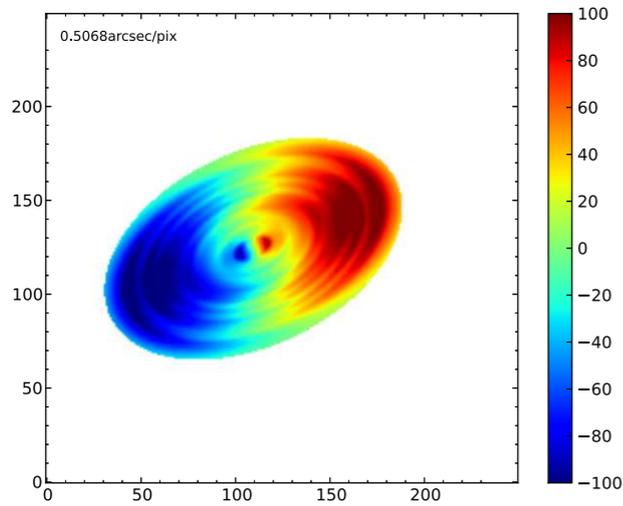
rf0037



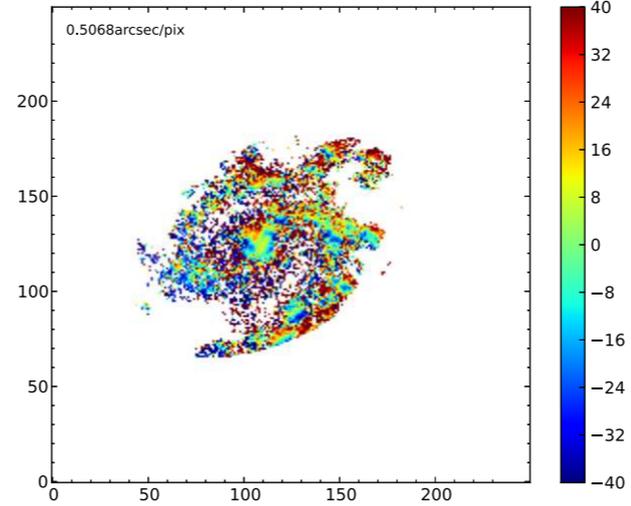
(a)



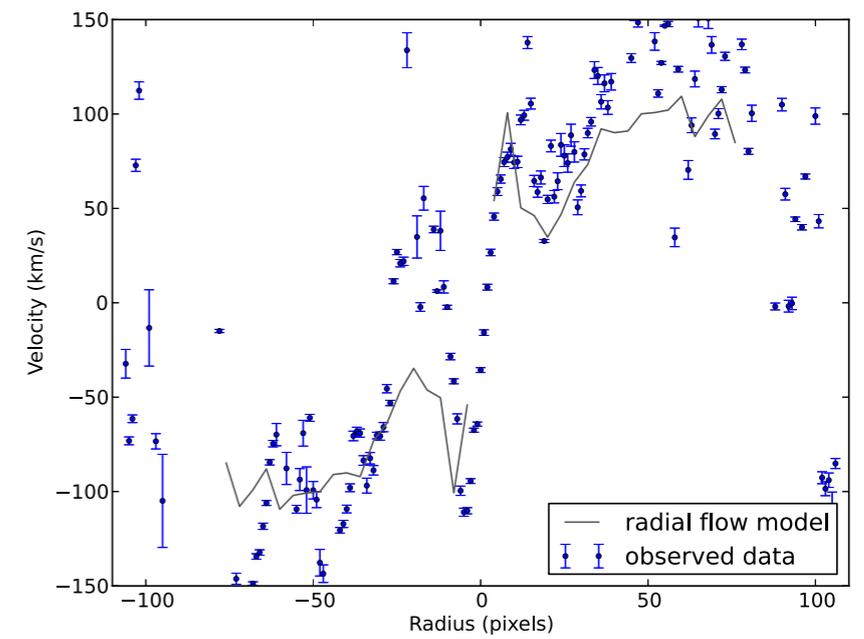
(b)



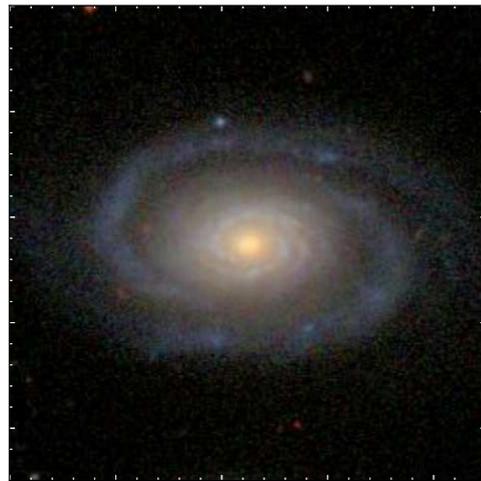
(c)



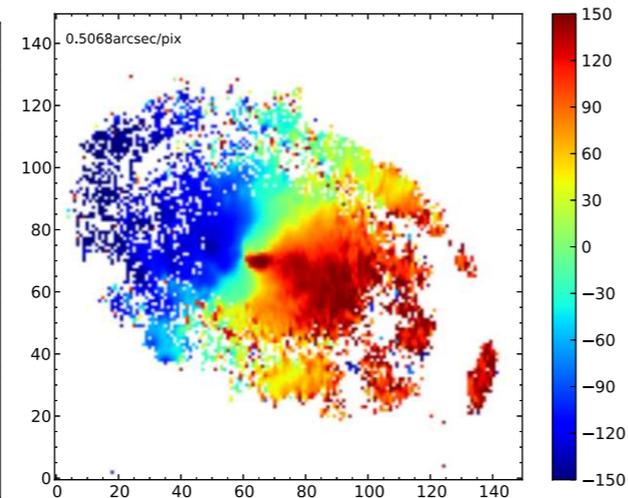
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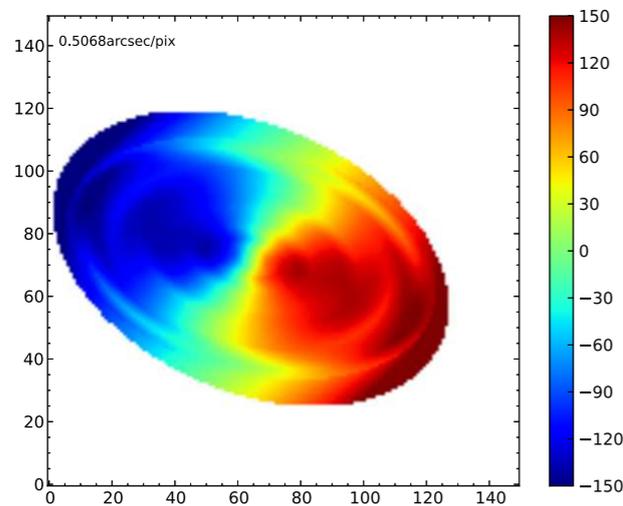
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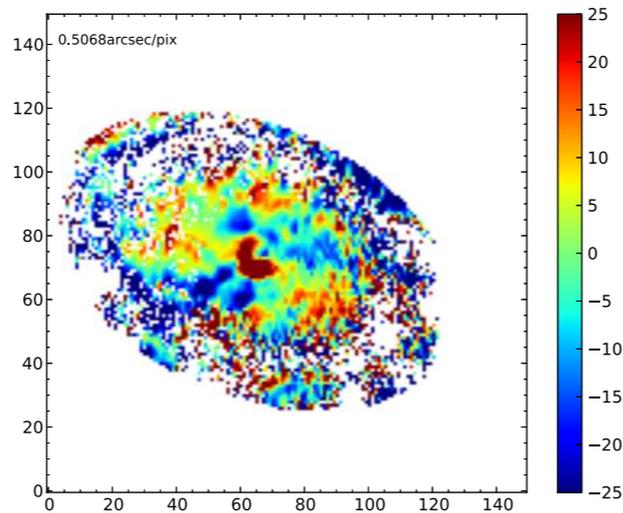
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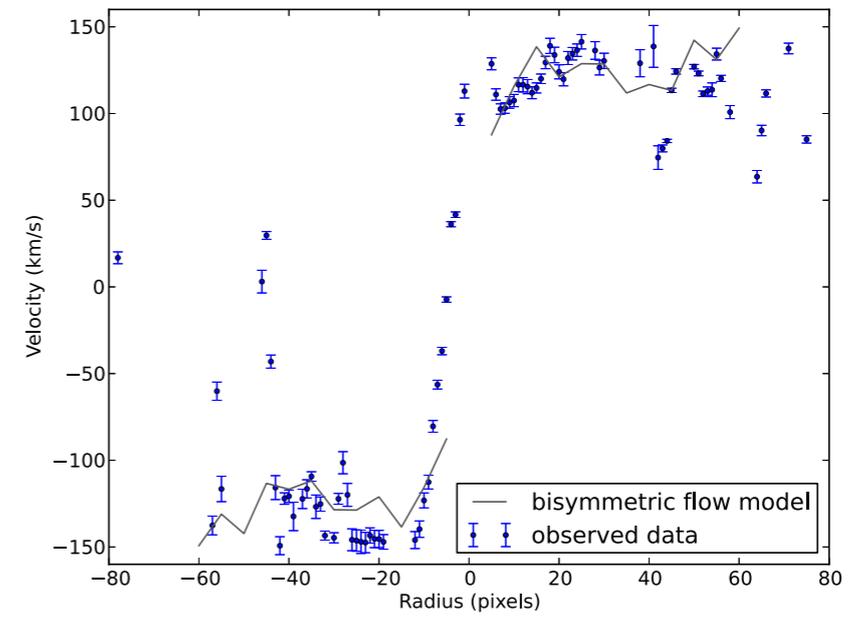
(b)



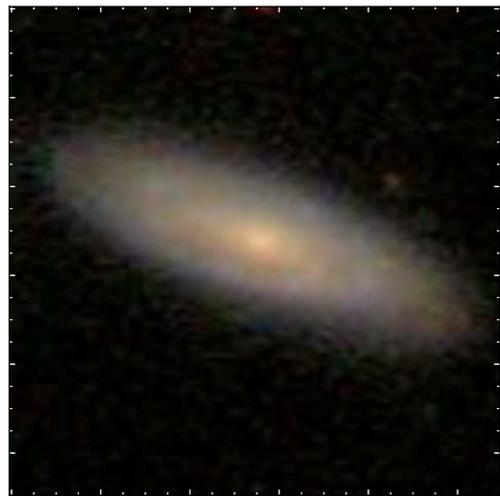
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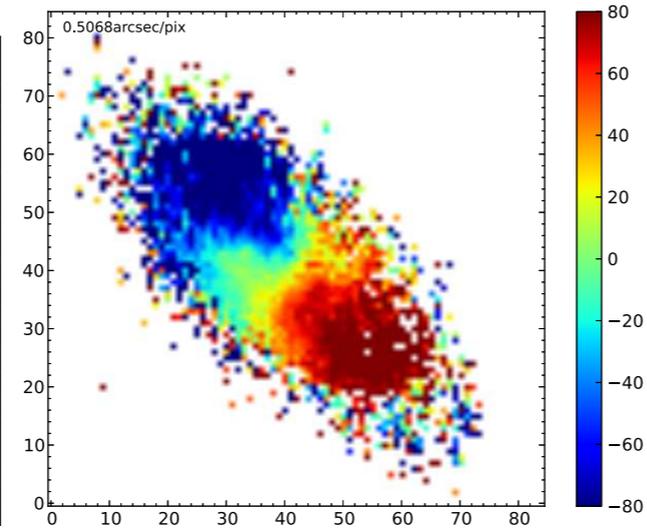
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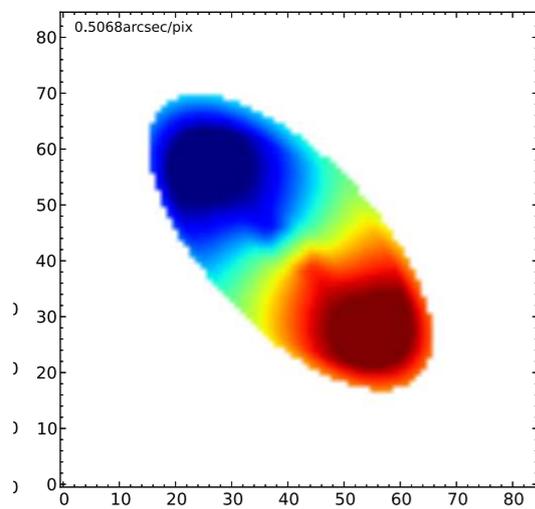
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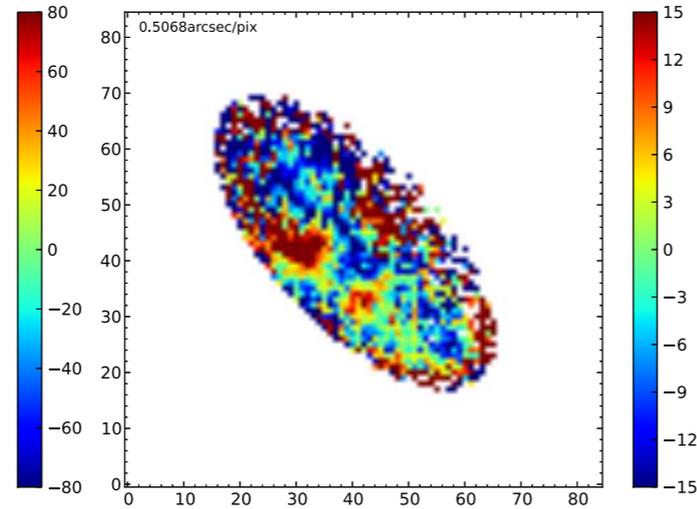
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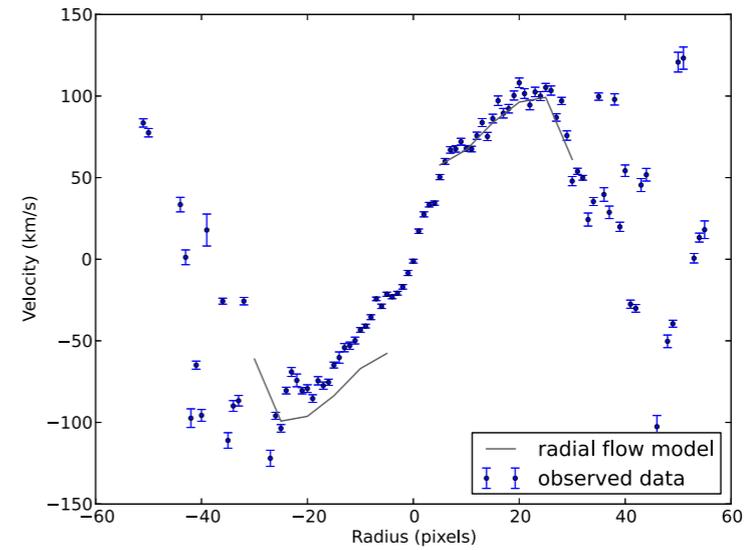
(b)



(c)



(d)



(e)