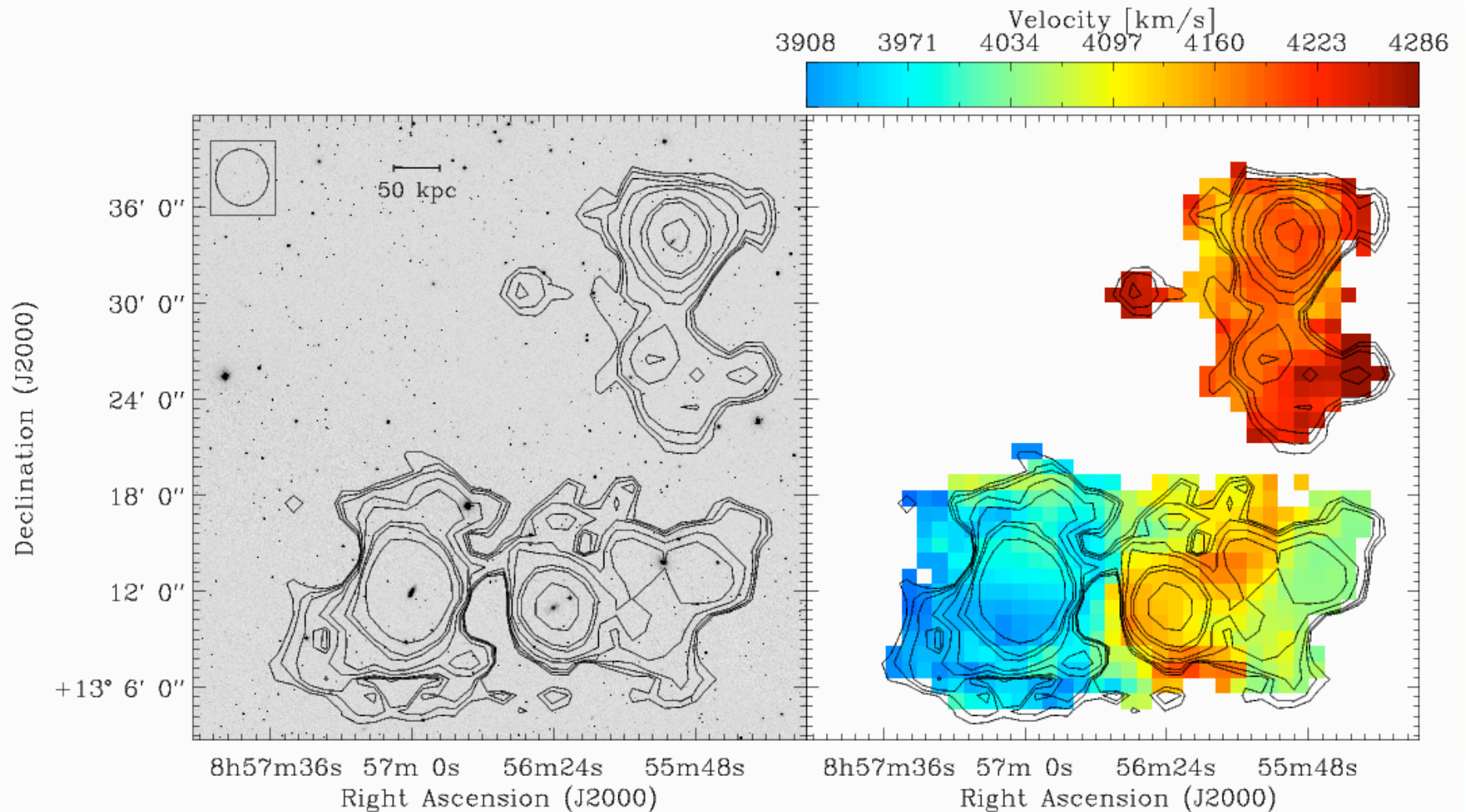


# Making Moment Maps from ALFALFA Data

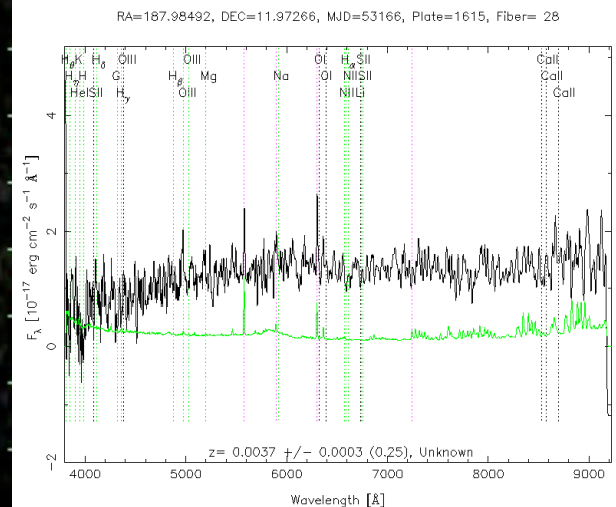
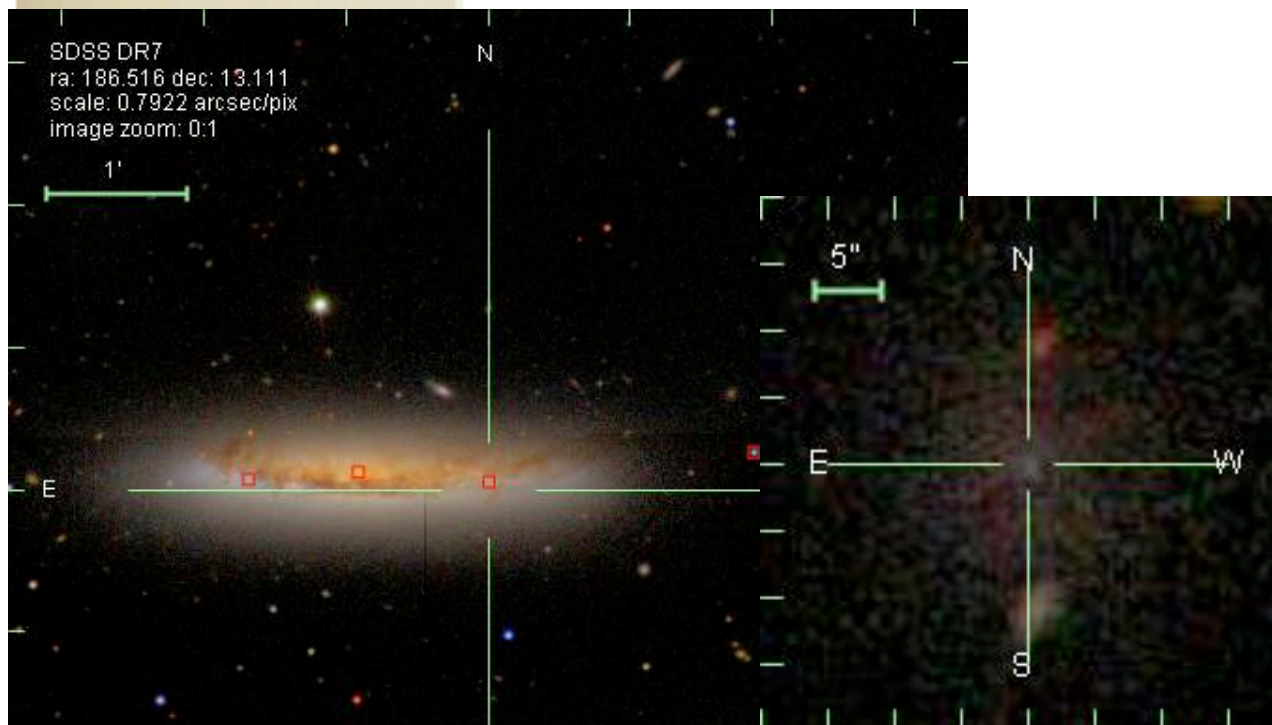


# Making Moment Maps from ALFALFA Data

- Examine channel maps to identify good regions
- Use “box\_it” to select good regions in each channel
- Combine all of the channels together and overlay contours on optical image (moment 0 map)
- Data can also be used to make a moment 1 velocity map

# Combining ALFALFA with SDSS

- Big galaxies with multiple spectra
- Weak spectra with uncertain redshifts
- Mis-identified spectra, incorrect redshifts



# Combining ALFALFA Data with SDSS

- Creating database of cross-matched data
  - All ALFALFA sources in grid
  - All SDSS spectroscopic sources in grid
  - Flags indicating primary SDSS source and other possible issues with the data
  - Photometry for all of the ALFALFA and SDSS spectroscopic sources (for which there is a visible object)

# SDSS Photometry

Photometry before and after within 9000 km/s

