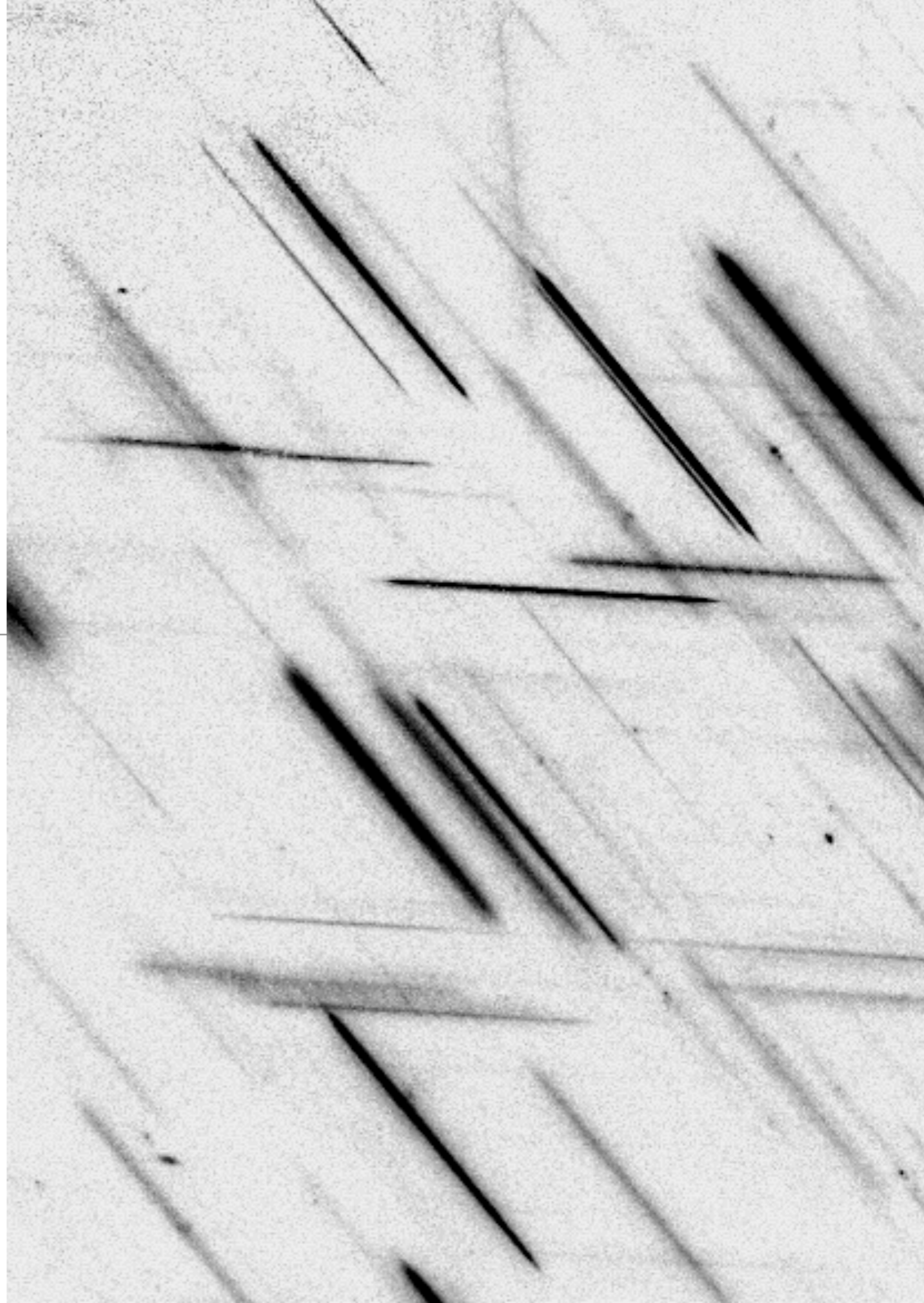


Grism Workshop for Galaxy Evolution

a combination science and
technical workshop focused on
grism spectroscopy



Motivation

- HST has a large archive of grism observations and a lot of unique science has come out of them
- JWST will also have fantastic grism capabilities
- Future missions with grisms: Euclid, WFIRST, LUVOIR
- STScI has a critical mass of science staff working on grism spectroscopy and we should show leadership
- New techniques are being developed for grism analysis - invite experts from the community and foster an ecosystem of grism tools

Program ideas:

- Low/Intermediate universe
 - Constraining stellar pops of galaxies
 - Emission line diagnostics
 - Resolved emission lines, structure in galaxies
 - AGN
- Environment, groups, clusters, proto-clusters
 - Identifying environment
 - Properties of galaxies
- High redshift universe
 - First galaxies
 - Lensed galaxies
- Cosmological surveys

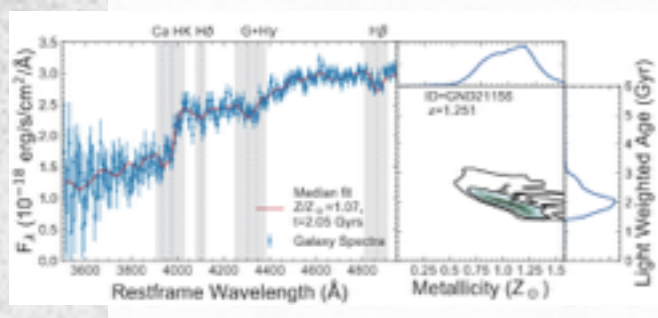
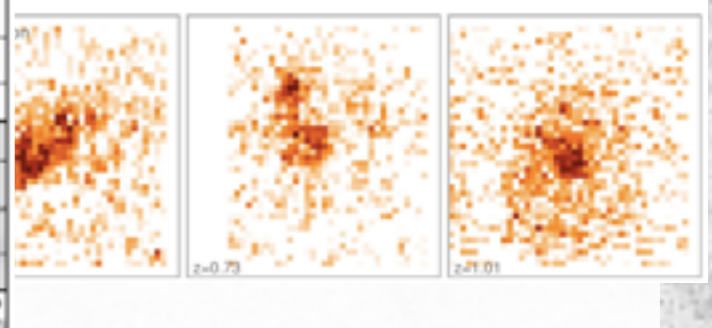
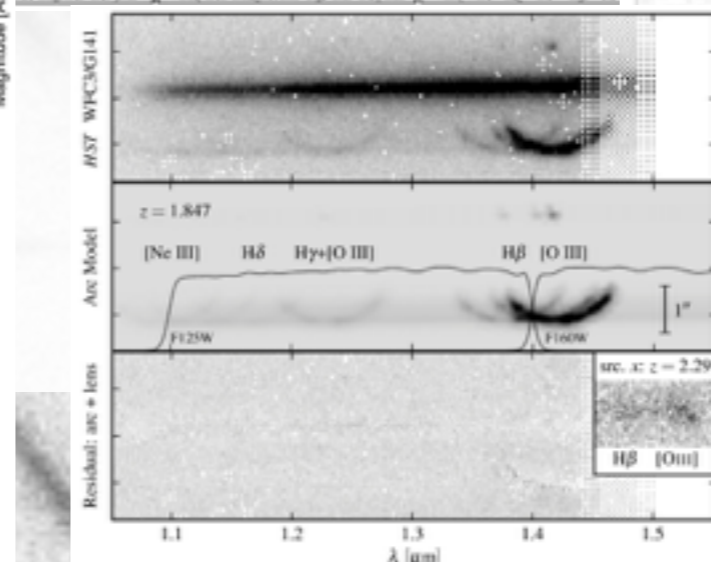
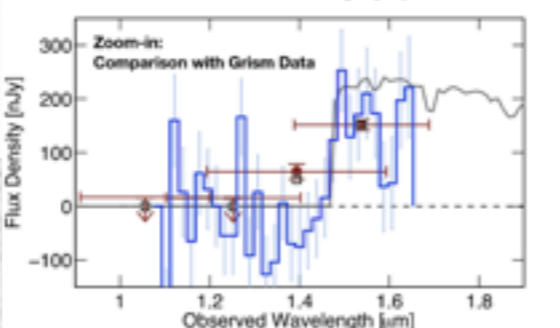
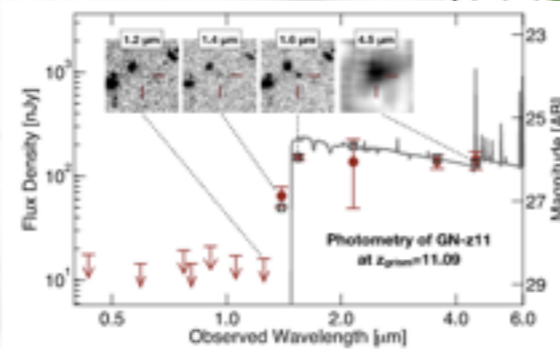
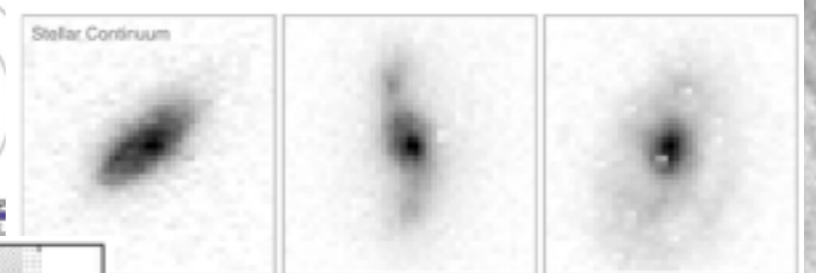
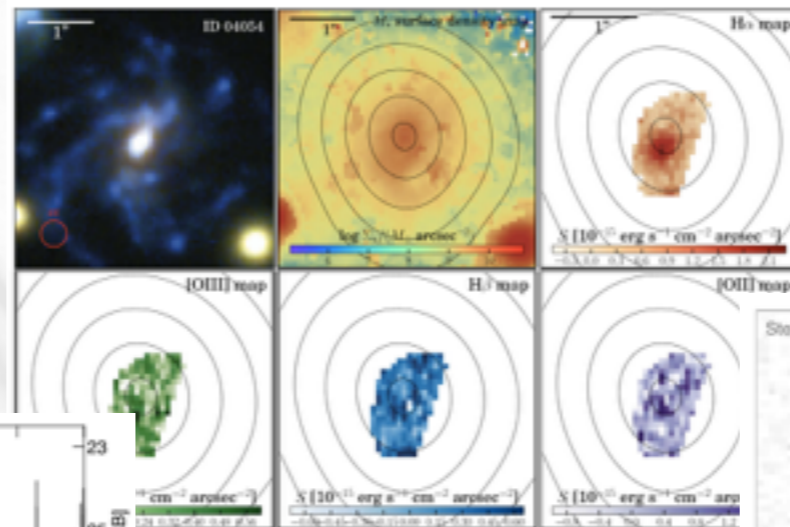
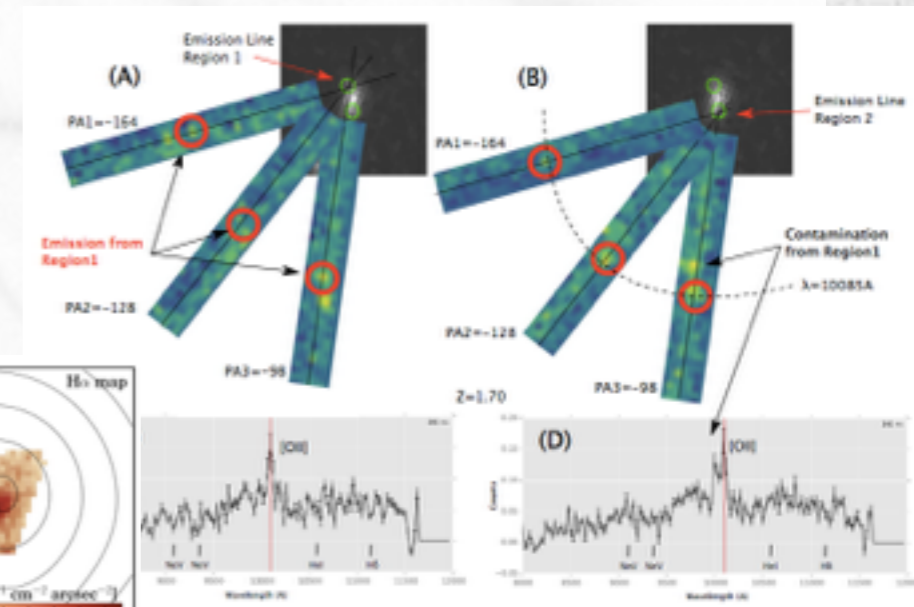
Program ideas:

Focus on science + technical (not separate talks)

Invite Euclid & WFIRST SIT

Two days of talks

Third day: hack day



Other workshops?

Grism-focused Conferences & Workshops

- Grism spectroscopy workshop @ STScI, Nov. 2010 <http://www.stsci.edu/institute/conference/axe2010>
- Census, Evolution, Physics @ Yale, Nov. 2015 <https://3dhst.research.yale.edu/conference/>

Recent & Upcoming Spectroscopy-focused Conferences and Workshops

- MOS spectroscopy @ Kavil, Cambridge, Sept. 2017
- “Understanding Emission-line galaxies for the next generation of cosmological surveys”, Spain, Sept. 2018

Potential LOC/SOC Members

- Camilla Pacifici
- Alaina Henry
- Nimish Hathi
- Swara Ravindranath
- Marc Rafelski
- Russel Ryan
- Norbert Przkal
- Stefano Casertano

Potential Invited Participants

- Tomasso Treu
- Sangeeta Malhotra
- Casey Papovich
- Erica Nelson
- Pieter van Dokkum
- Guillermo Barro
- Jonathan Trump
- Gabriel Brammer