

RELICS team telecon
September 8, 2016

Webex telecon – <https://stsci.webex.com/join/dcoe>

RELICS wiki – <https://sites.google.com/site/hstrelics/>

Clusters: https://docs.google.com/spreadsheets/d/1-0xDD_INLWYKXflogghWxa5cx-an3Dhj7DUUIMBLdZk

Notes from last month:

https://docs.google.com/document/d/1Rgil4U1FhEWi_kURFHzebE2YJKJLBm-w0wjNqxGb_KI

Participants

Dan Coe, Brenda, Kuang, Larry, Marusa, Pascal, Ramesh, Will, Keren, Traci, Rachel, Keiichi, Rychard, Steve

Agenda

- Brett Salmon arrives Sept. 19
- Supernovae
 - Nebra still $z \sim 2$ Ia – proposal Nebra plus others
- HST images
 - 14 clusters complete (+6 with epoch1); 7 delivered to MAST
- Spitzer images
 - 18 clusters complete; 14 processed, including 7 completed by HST (+3 with epoch1); catalogs
 - <https://www.dropbox.com/sh/xtv44kw2rqdjwws/AAQjoVDq8mixsOGhAOWU8uRa?dl=0>
- Magellan Megacam – 3 nights; 8 clusters (Sept. 27 – 29)
- High- z candidates (incl. $z \sim 10$; see below)
- Lens models
 - To start quantifying high- z candidate expectations
- Will's sheared detections
- Spectroscopic redshifts
 - Dan Stark's Magellan LDSS3 multislit run Aug 2-3; observer: Ramesh
 - Redshifts available? – 8 lensed arcs in 4 clusters; most ~ 1.5 , few 3.6, one 4.9; one arc in each of 4 clusters
 - El Gordo could be observed again; main arc too faint – could spend all night
 - Keren Sharon's Magellan runs:
 - September (different project); no RELICS observable that half of night
 - November 27 (RELICS) – mid Oct. masks; 3 or 4 clusters
 - Need wider field catalogs – Will can do Oct. beginning
 - Action: Will to send out list of targets for end of Sept. Magellan
 - Marusa: end Nov. Subaru run
- Clusters

- Cluster mass scaling paper
- Nicole just took INSIGHT fellowship and will follow-up with a data science position
- Keiichi has new post-doc working on tri-axial modeling (I-Non Chiu, ASIAA)
- Papers
 - Overview paper
 - <https://stsci.box.com/s/ooojh4bqxm4wp73uxz673i0vkl01g1bd>
 - Team papers discussed in Tucson:
 - https://docs.google.com/spreadsheets/d/1qLwcViepTLE3binGtxOypgbsf3NXIOPW_6pF21bORP8/edit#gid=1464710462
 - Keren's group: paper on first ~5 clusters
 - Will: Maximum Likelihood paper
- Smaller telecons:
 - Clusters
 - Ground-based imaging reduction related meeting
 - High-z — Sept. 20?
 - Lensing
 - Other?
- Keren put in application to have a meeting at Mich. they got the funding to support facility (meals, coffee, etc.) and perhaps some travel of early career members. Need to decide on time. Last RELICS data comes in April, so late spring or Summer

High-z candidates (most interesting):

- $z \sim 10$ or 2.5; mag 25.2:
 - https://relics.stsci.edu/private/plckg138-10/epoch2-sum/catalogs/IR_detection/PhotoZ/html/751.html
 -
- $z \sim 7.7$; mag 26.2; mentioned previously:
 - https://relics.stsci.edu/private/rxc0911+17/epoch2-sum/catalogs/IR_detection/PhotoZ/html/143.html
 -
- mag 25.5; $z \sim 1.5$ or 8:
 - https://relics.stsci.edu/private/whl0137-08/epoch2-sum/catalogs/IR_detection/PhotoZ/html/571.html
 -
- mag 23.2! so probably $z \sim 2$ vs. 5 or 8 (again Spitzer will be key); interesting regardless:
 - https://relics.stsci.edu/private/abell2163/epoch2-sum/catalogs/IR_detection/PhotoZ/html/1510.html
 -
- mag 27.3; sheared arc; $z \sim 1.5$ or 8:
 - https://relics.stsci.edu/private/rxc0911+17/epoch2-sum/catalogs/IR_detection/PhotoZ/html/575.html

$z \sim 2.5$ or 10: HST and Spitzer images

https://relics.stsci.edu/private/plckg138-10/epoch2-sum/catalogs/IR_detection/PhotoZ/html/751.html

Kuang's Spitzer analysis

