

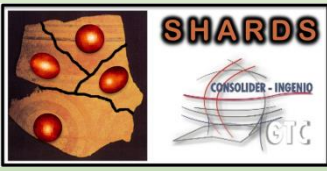
Welcome info

- Registration fee for lunch & coffee breaks: 25€.
- Wifi network: UCM-CONGRESO
access key: congresos2014
username: shards@congreso.ucm.es
password: shards15

Eduroam should also work.

- Lunch tomorrow: Aynaelda, Calle Yébenes, 38. Metro Laguna (6 stops in grey line). 30€ menu.
Final headcount!!!
- Please give us PDF files of your presentations so we can post them in the SHARDS webpage.





SHARDS: an update

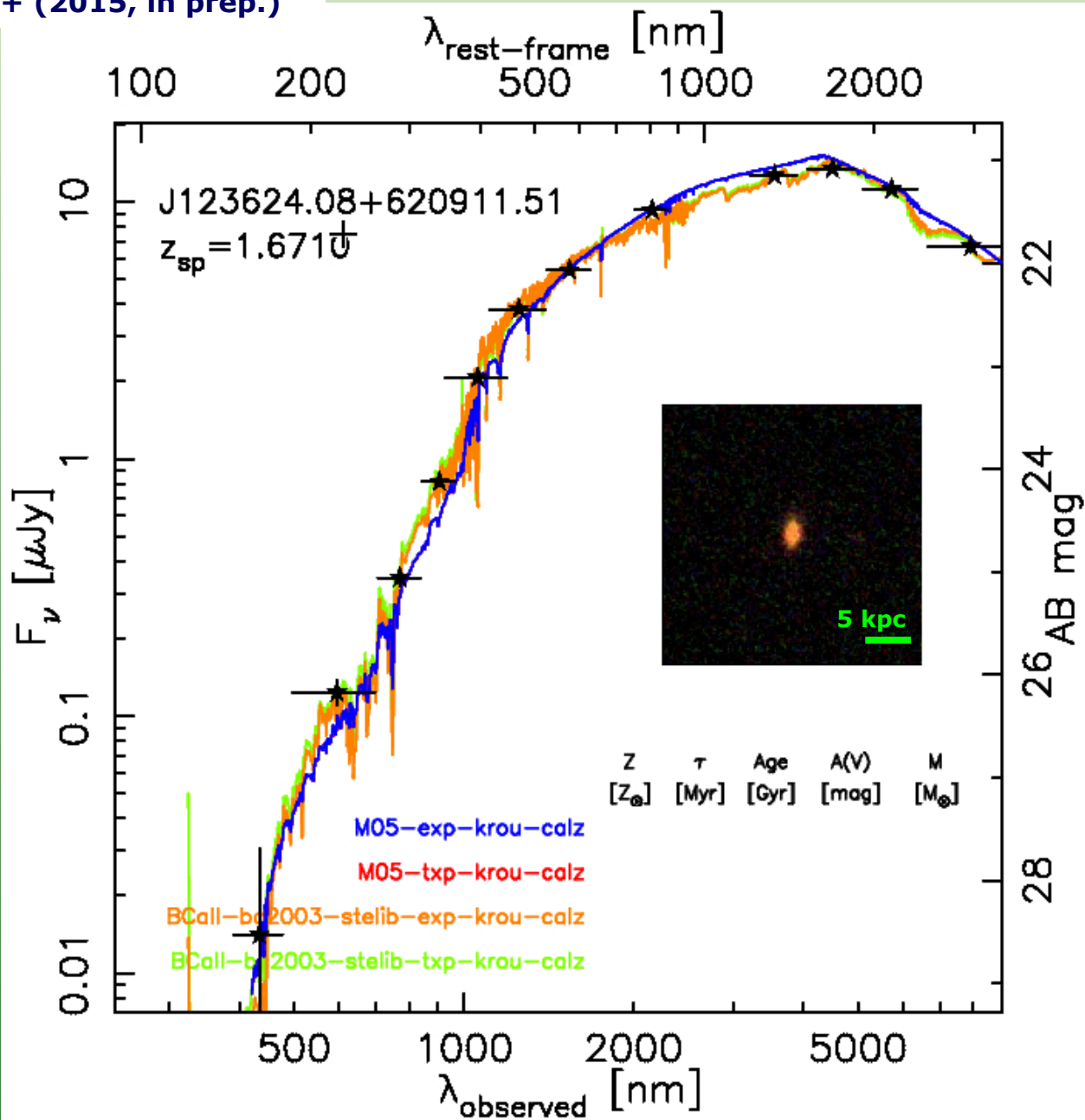
SHARDS Team: B. Alcalde, A. Cava, G. Barro, M. Balcells, N. Cardiel, J. Cenarro, J. Cepa, S. Charlot, A. Cimatti, C. Conselice, E. Daddi, H. Domínguez-Sánchez, J. Donley, D. Elbaz, P. Esquej, I. Ferreras, J. Gallego, R. Gobat, R. Guzmán, A. Renzini, G. Rieke, J.M. Rodríguez-Espinosa, L. Tresse, I. Trujillo, J. Zamorano

Extended SHARDS Team: A. Alonso-Herrero, J. de Diego, C. Eliche Moral, O. González-Martín, K. Lai, J.A. López Aguerra, J. Masegosa, C. Muñoz Tuñón, M. Prieto, J. Rodríguez-Zaurín, J. Sánchez Almeida, P. Sánchez Blázquez.

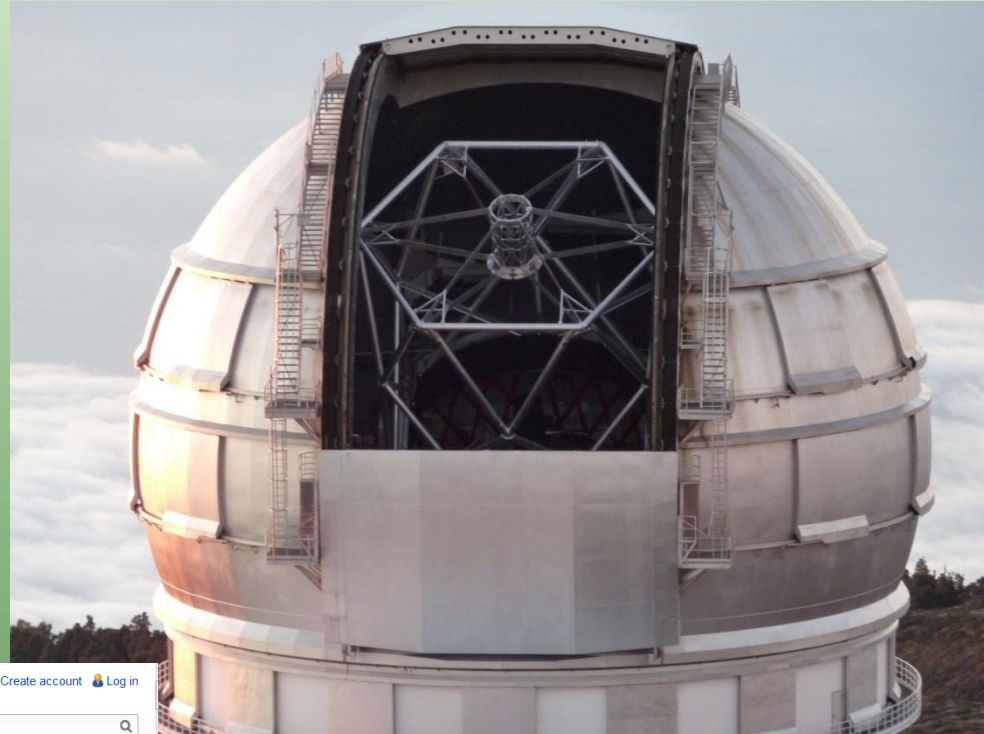


SHARDS: beyond “classical” photometry

Pérez-González+ (2015, in prep.)



SHARDS: getting better SFHs



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List of largest optical reflecting telescopes

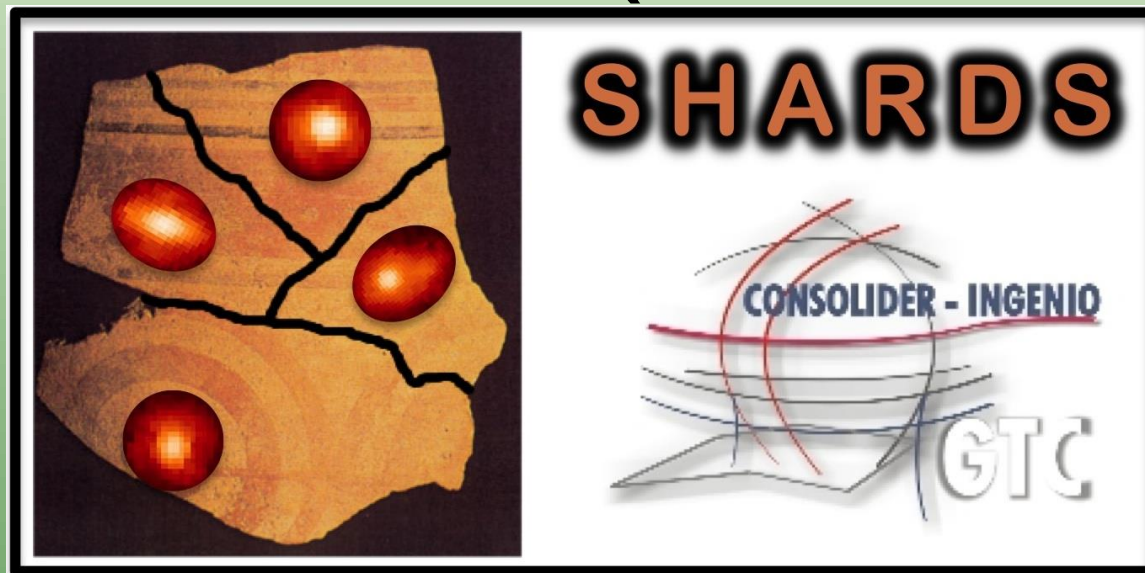
From Wikipedia, the free encyclopedia

Name	Image	Effective aperture m	Aper. in	Mirror type	Nationality / Sponsors	Site	Built
Gran Telescopio Canarias (GTC)		10.4 m	409"	Segmented, 36	Spain (90%), Mexico, USA	Roque de los Muchachos Obs., Canary Islands, Spain	2006/9
Keck 1		10 m	394"	Segmented, 36	USA	Mauna Kea Observatories, Hawaii, USA	1993
Keck 2		10 m	394"	Segmented, 36	USA	Mauna Kea Observatories, Hawaii, USA	1996
Southern African Large Telescope (SALT) ^[1] (11 m × 9.8 m mirror)		9.2 m	362"	Segmented, 91	South Africa, USA, UK, Germany, Poland, New Zealand	South African Astronomical Obs., Northern Cape, South	2005

eting II
4, 2015



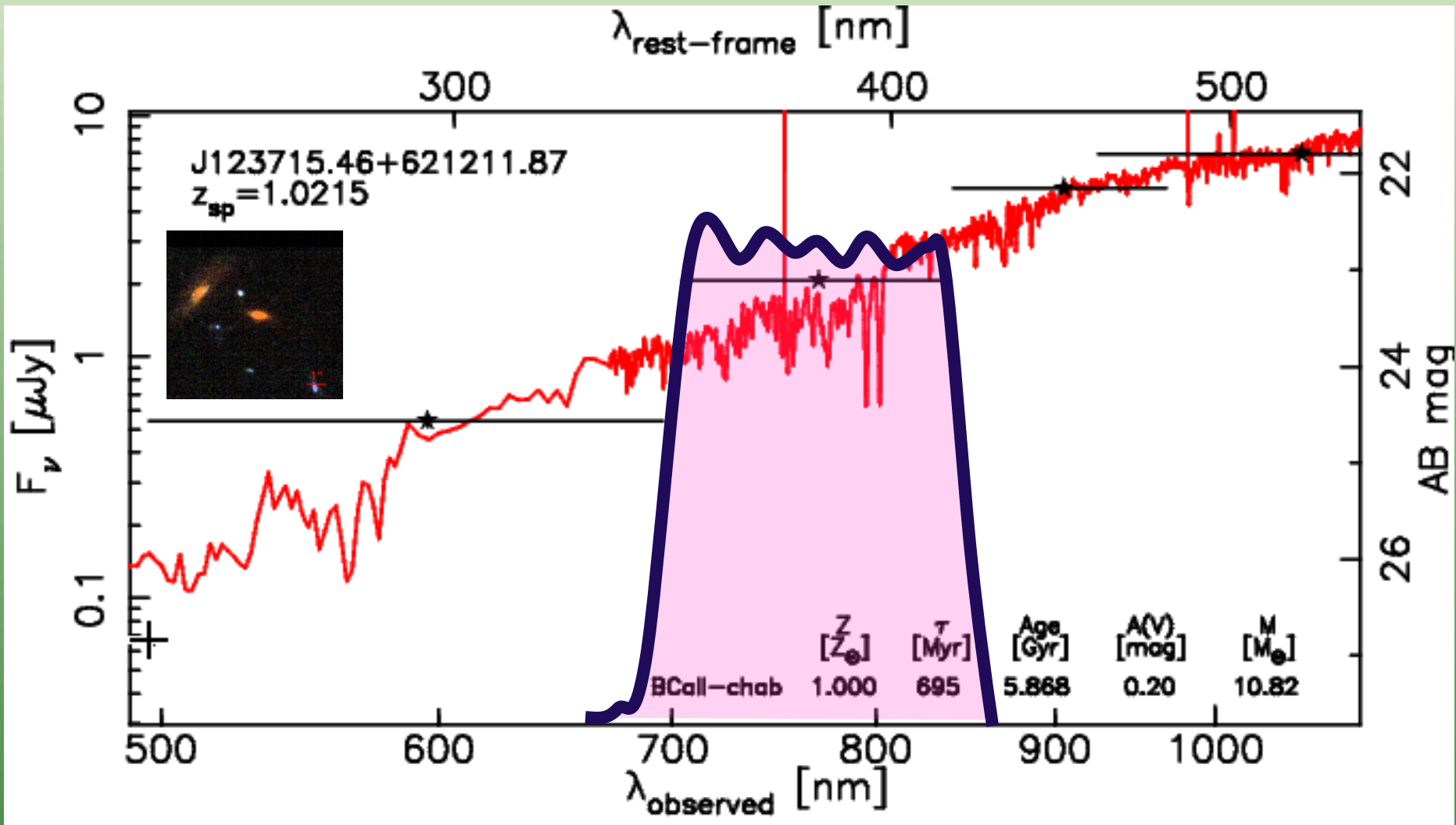
SHARDS: Survey for High-z Absorption Red and Dead Sources (in GOODS-N field)



<http://guaix.fis.ucm.es/~pgperez/SHARDS>



SHARDS: absorption indices at $z > 1$

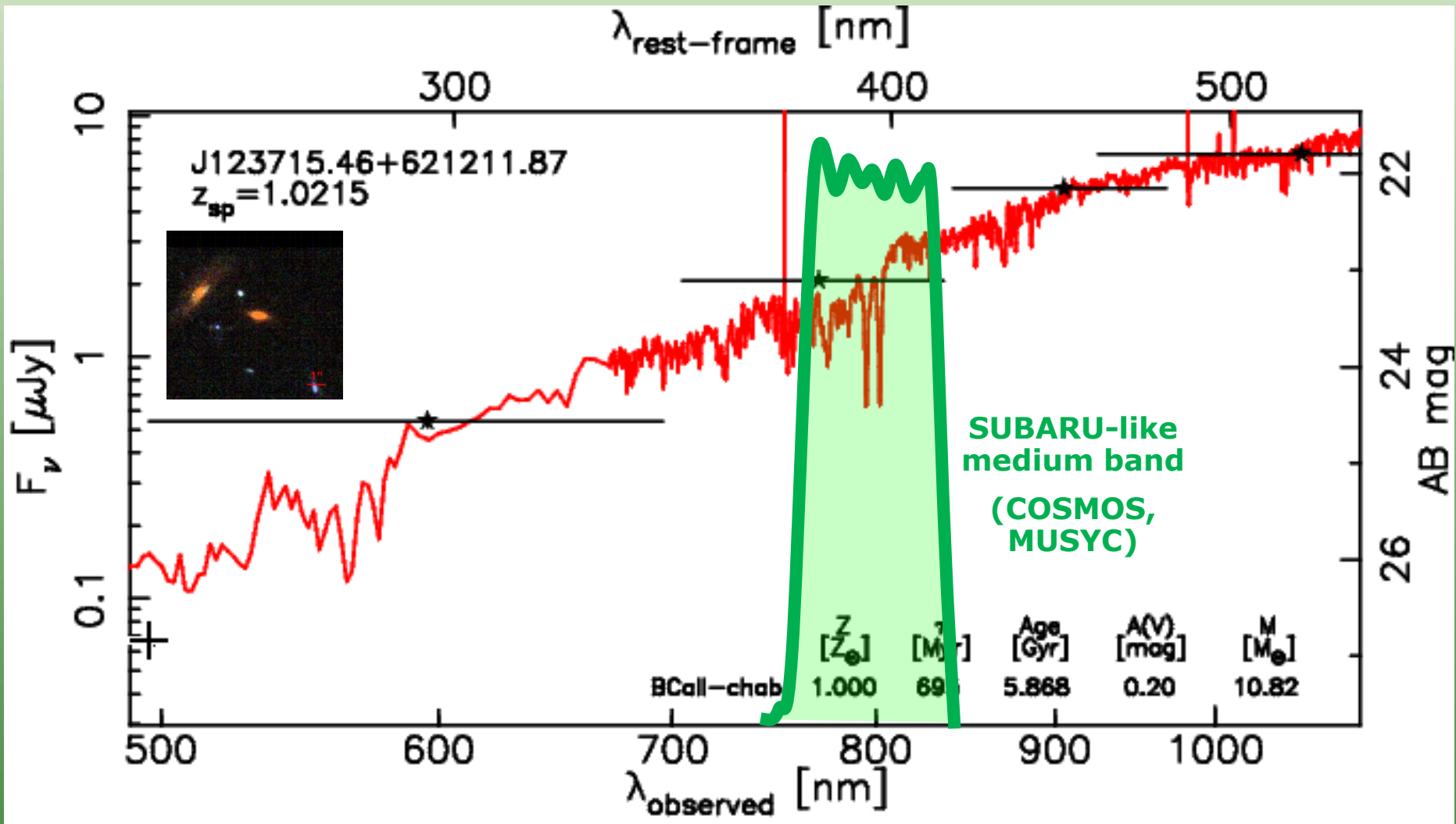


Pérez-González et al. (2013)

Magnitudes of $M \gtrsim 10^{10} M_{\odot}$ galaxies @ $z=1-3$ > (27, 26, 25)



SHARDS: absorption indices at $z > 1$

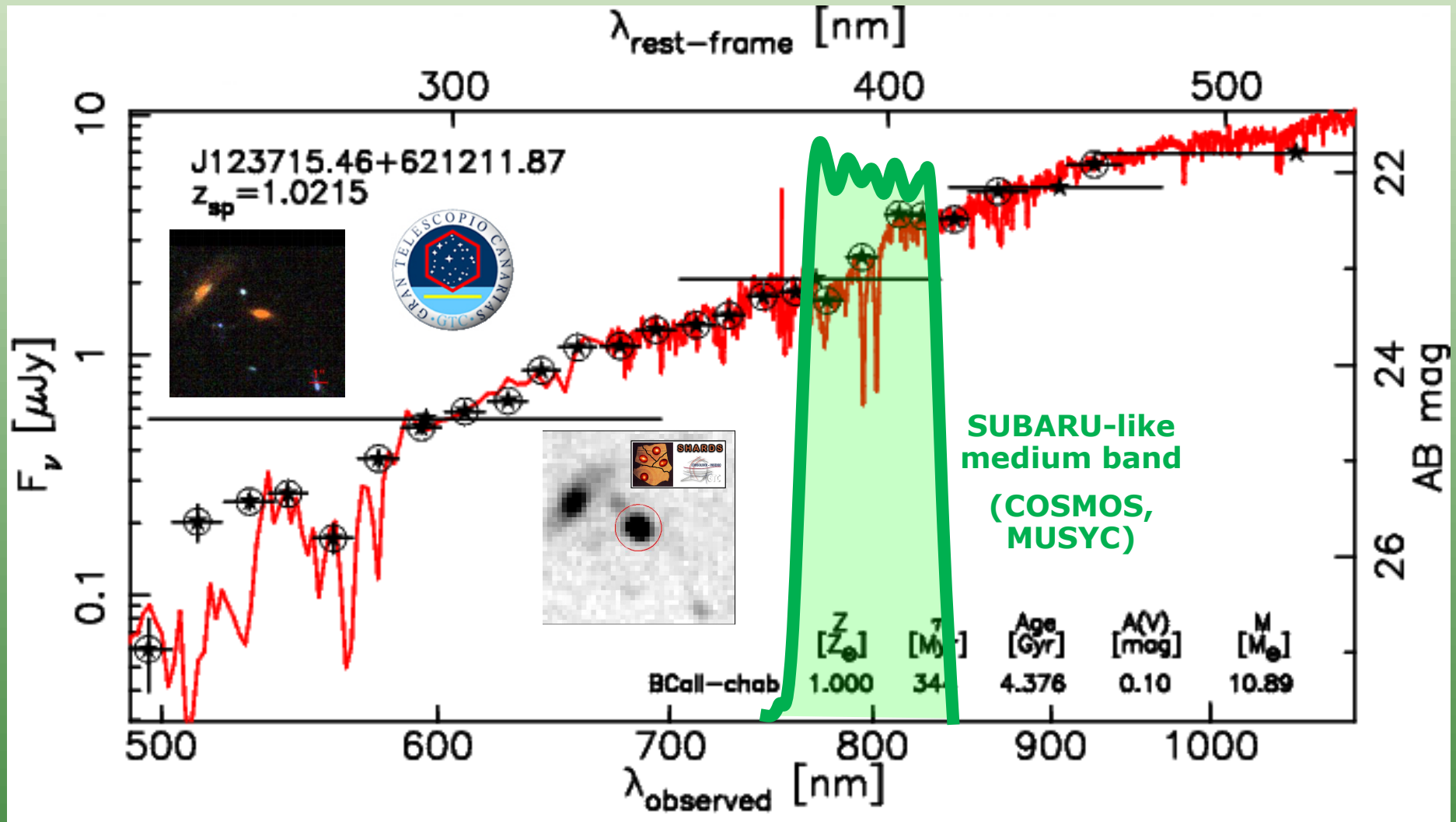


Pérez-González et al. (2013)

Magnitudes of $M \gtrsim 10^{10} M_{\odot}$ galaxies @ $z=1-3$ > (27, 26, 25)



SHARDS: absorption indices at $z > 1$

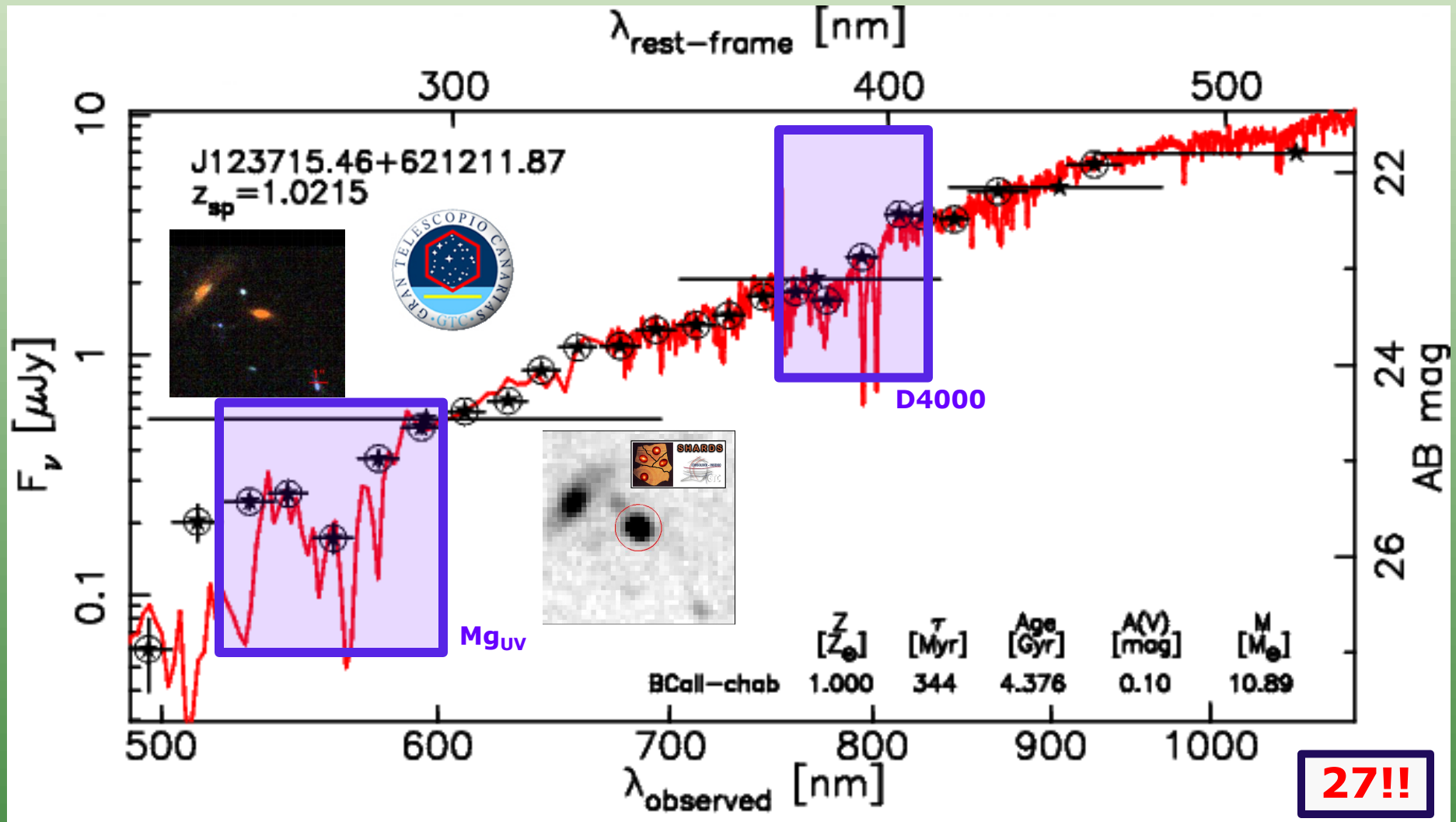


Pérez-González et al. (2013)

Magnitudes of $M \gtrsim 10^{10} M_{\odot}$ galaxies @ $z=1-3$ > (27, 26, 25)



SHARDS: absorption indices at $z > 1$

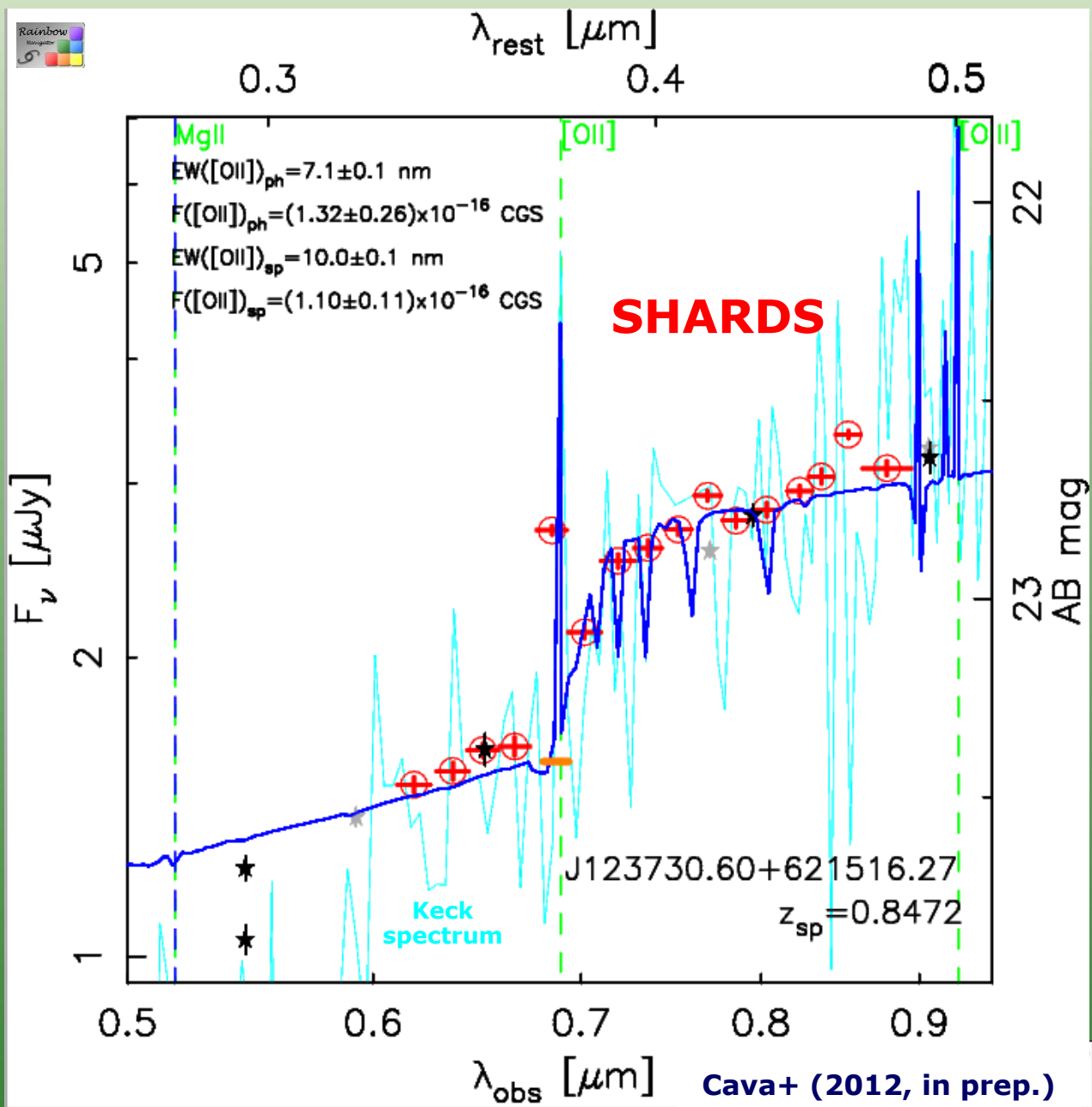
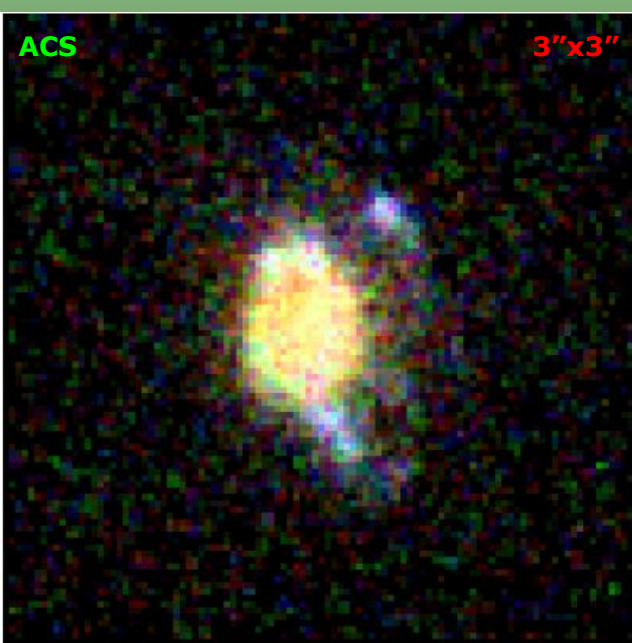
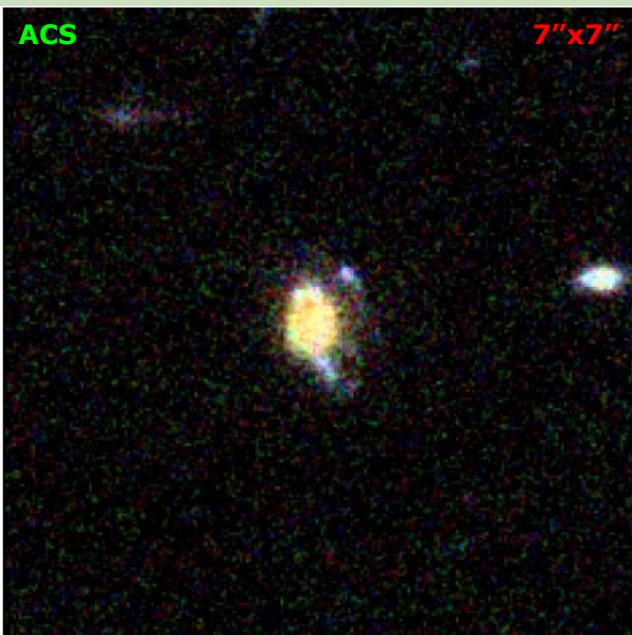


Pérez-González et al. (2013)

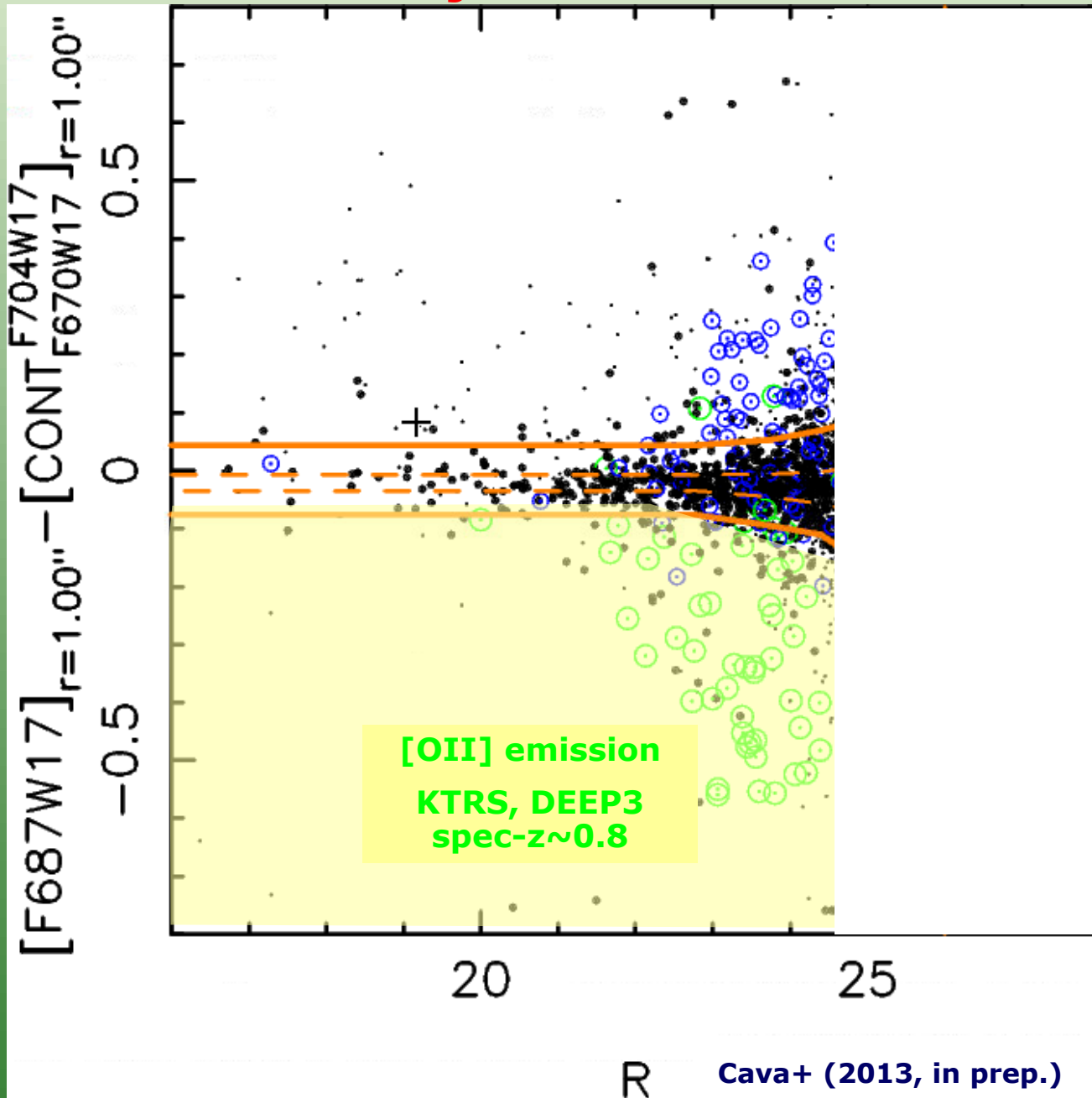
Magnitudes of $M \gtrsim 10^{10} M_\odot$ galaxies @ $z=1-3 > (27, 26, 25)$



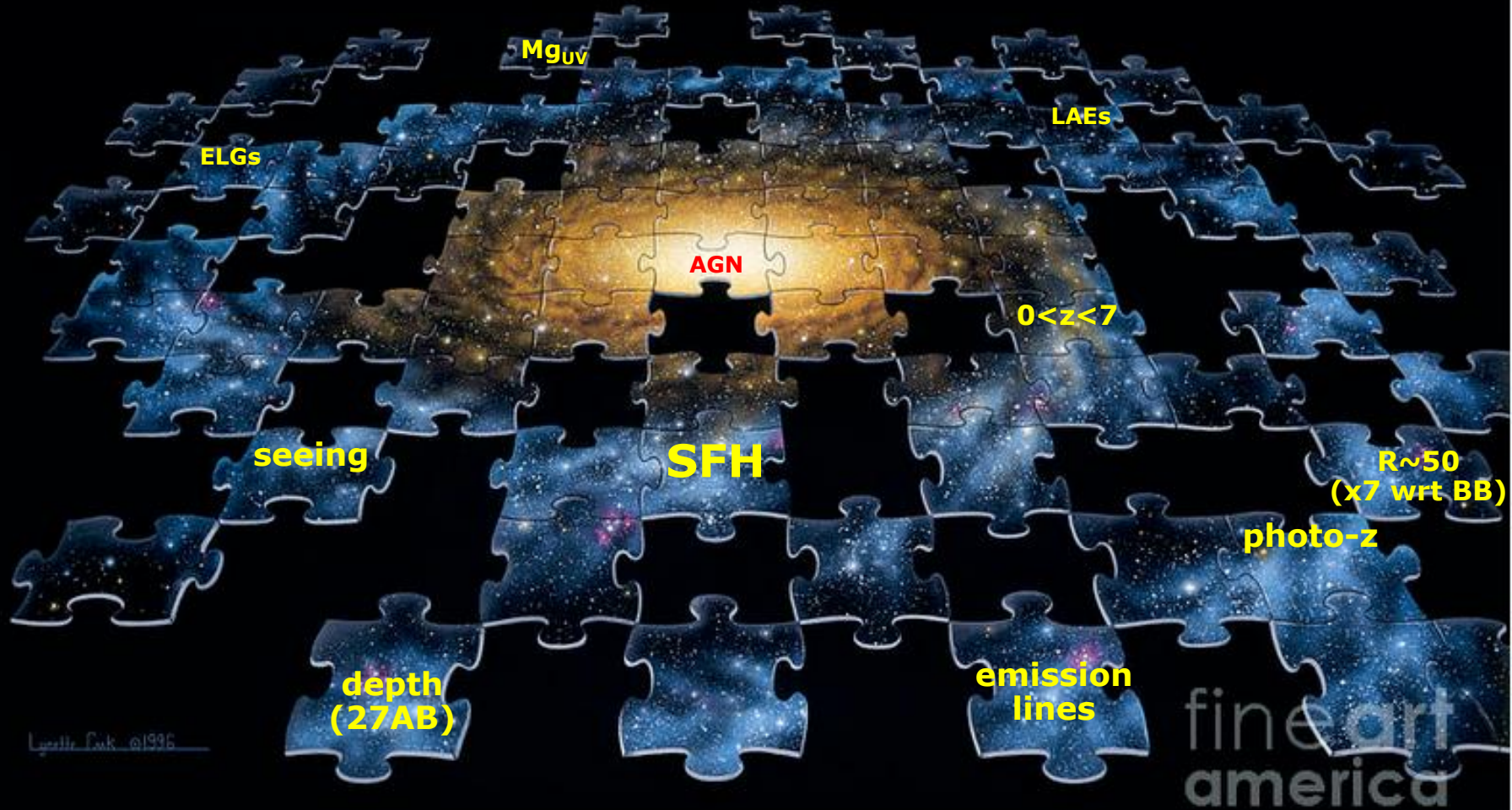
SHARDS also easily detects emission lines



SHARDS also easily detects emission lines



Why SHARDS?



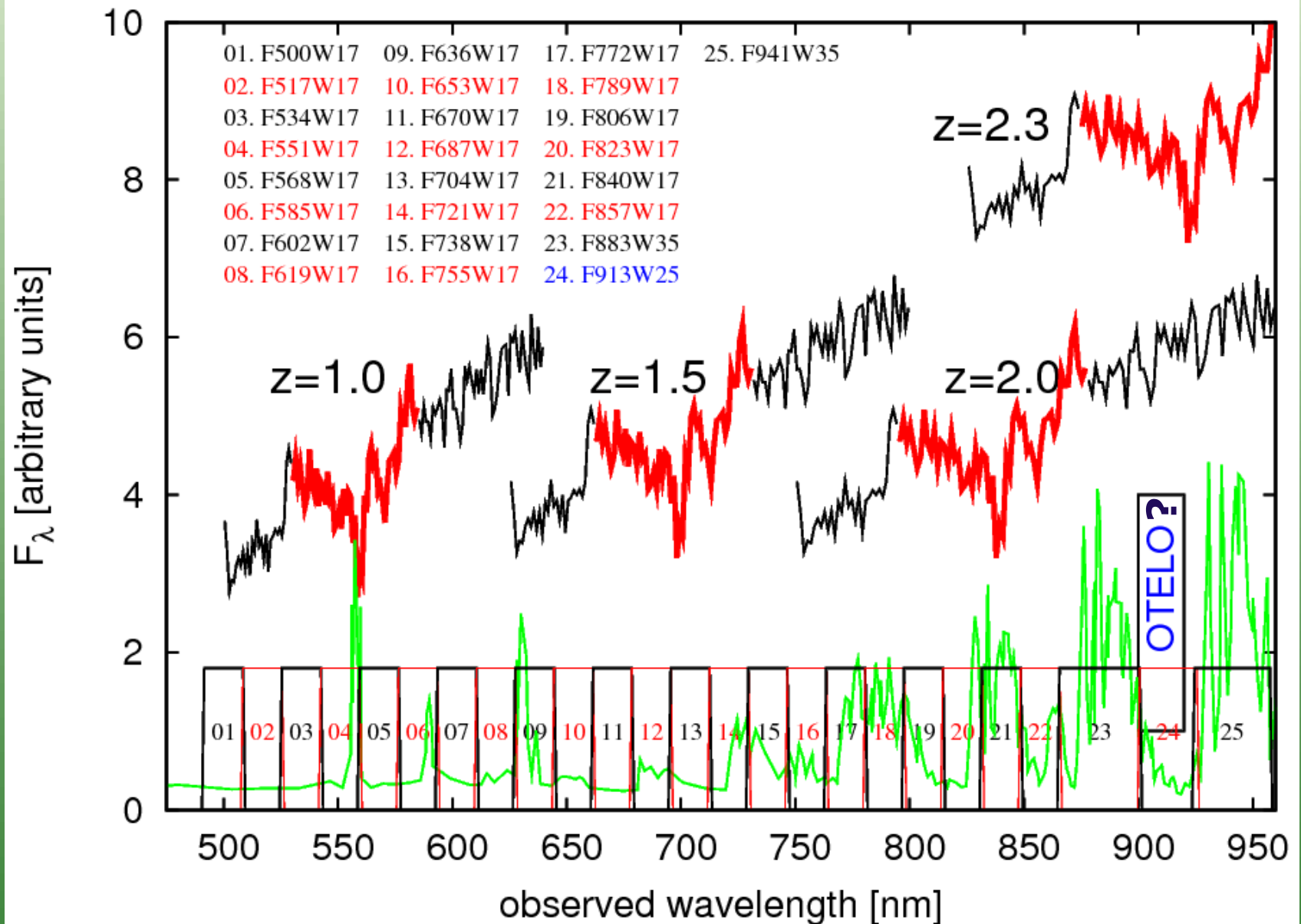
SHARDS Team Meeting II
Madrid, May 13-14, 2015



SHARDS: published papers

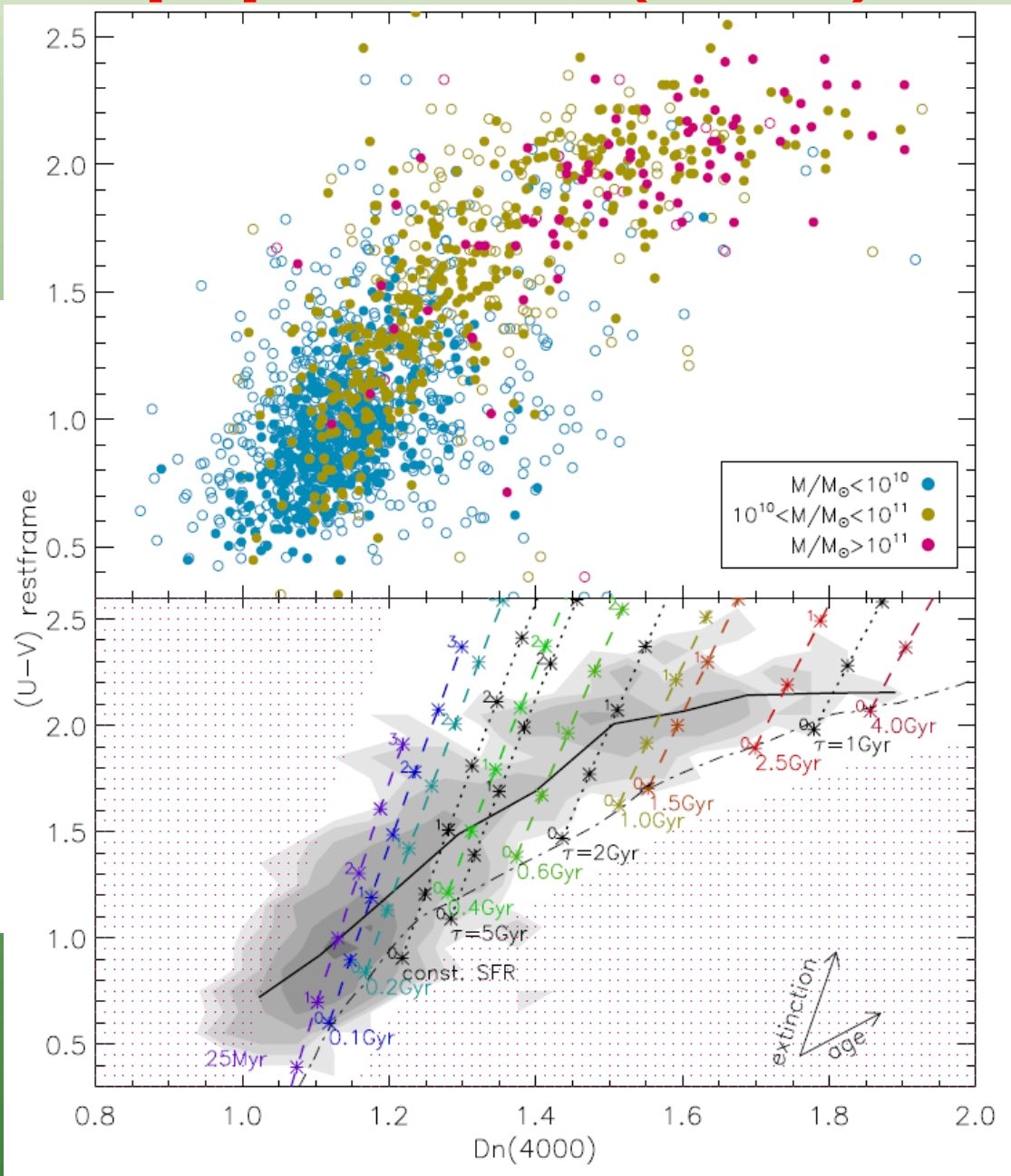
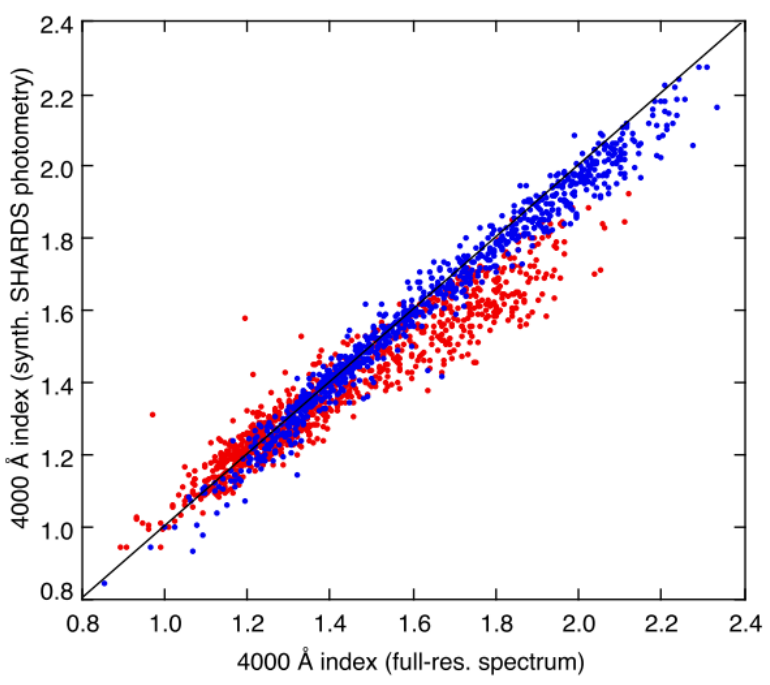
#	Bibcode Authors	Score Title	Date	List of Links Access Control Help
1	2015ApJ...798L...4M Martín-Navarro, Ignacio; Pérez-González, Pablo G.; Trujillo, Ignacio; Esquej, Pilar; Vazdekis, Alexandre; Domínguez Sánchez, Helena; Barro, Guillermo; Bruzual, Gustavo; Charlot, Stéphane; Cava, Antonio; and 5 coauthors	1.000 The Stellar Initial Mass Function at $0.9 < z < 1.5$	01/2015	A E F X D R C U
2	2014MNRAS.444L..68R Rodríguez Espinosa, J. M.; González-Martín, O.; Castro Rodríguez, N.; Pérez-González, P. G.; Mas-Hesse, J. M.; Muñoz-Tuñón, C.; Cava, A.; Cardiel, N.; Cabrera Lavers, A.; Gallego, J.; and 3 coauthors	1.000 Episodic star formation in a group of LAEs at $z = 5.07$	10/2014	A E F X D R C U
3	2014MNRAS.444..906F Ferreras, I.; Trujillo, I.; Mármol-Queraltó, E.; Pérez-González, P. G.; Cava, A.; Barro, G.; Cenarro, J.; Hernán-Caballero, A.; Cardiel, N.; Rodríguez-Zaurín, J.; Cebrián, M.	1.000 Constraints on the merging channel of massive galaxies since $z \sim 1$	10/2014	A E F X D R C U
4	2014MNRAS.443.3538H Hernán-Caballero, Antonio; Alonso-Herrero, Almudena; Pérez-González, Pablo G.; Barro, Guillermo; Aird, James; Ferreras, Ignacio; Cava, Antonio; Cardiel, Nicolás; Esquej, Pilar; Gallego, Jesús; and 2 coauthors	1.000 Higher prevalence of X-ray selected AGN in intermediate-age galaxies up to $z \sim 1$	10/2014	A E F X D R C U
5	2014ApJS...213....2Y Yan, Haojing; Stefanon, Mauro; Ma, Zhiyuan; Willner, S. P.; Somerville, Rachel; Ashby, Matthew L. N.; Davé, Romeel; Pérez-González, Pablo G.; Cava, Antonio; Wiklind, Tommy; and 6 coauthors	1.000 Optical-faint, Far-infrared-bright Herschel Sources in the CANDELS Fields: Ultra-luminous Infrared Galaxies at $z > 1$ and the Effect of Source Blending	07/2014	A E F X D R C S U
6	2013MNRAS.434.2136H Hernán-Caballero, Antonio; Alonso-Herrero, Almudena; Pérez-González, Pablo G.; Cardiel, Nicolás; Cava, Antonio; Ferreras, Ignacio; Barro, Guillermo; Tresse, Laurence; Daddi, Emanuele; Cenarro, Javier; and 3 coauthors	1.000 SHARDS: stellar populations and star formation histories of a mass-selected sample of $0.65 < z < 1.1$ galaxies	09/2013	A E F X D R C S U
7	2013ApJ...762...46P Pérez-González, Pablo G.; Cava, Antonio; Barro, Guillermo; Villar, Víctor; Cardiel, Nicolás; Ferreras, Ignacio; Rodríguez-Espinosa, José Miguel; Alonso-Herrero, Almudena; Balcells, Marc; Cenarro, Javier; and 19 coauthors	1.000 SHARDS: An Optical Spectro-photometric Survey of Distant Galaxies	01/2013	A E F X D R C S N U

SHARDS published papers: P-G+ 2013



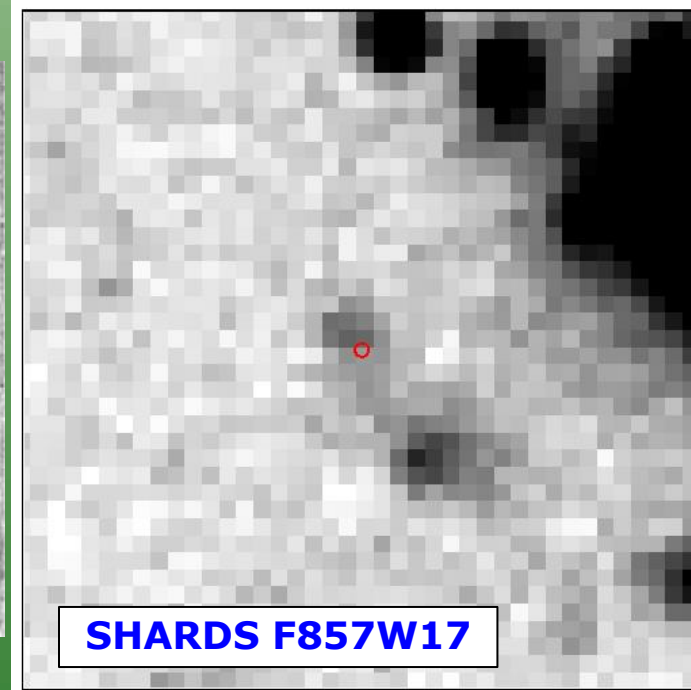
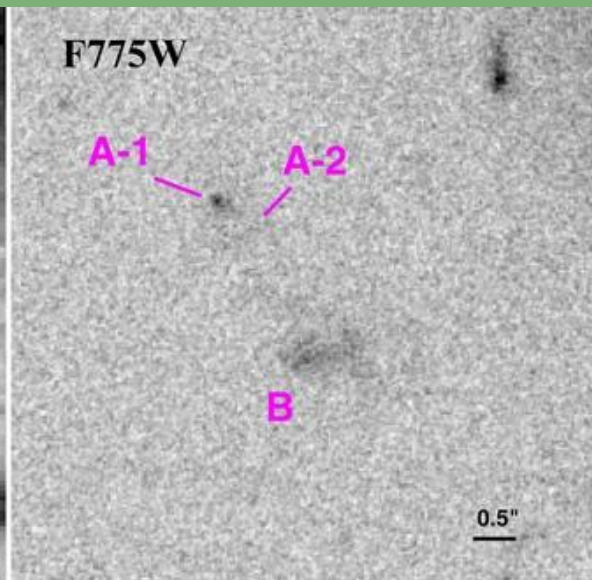
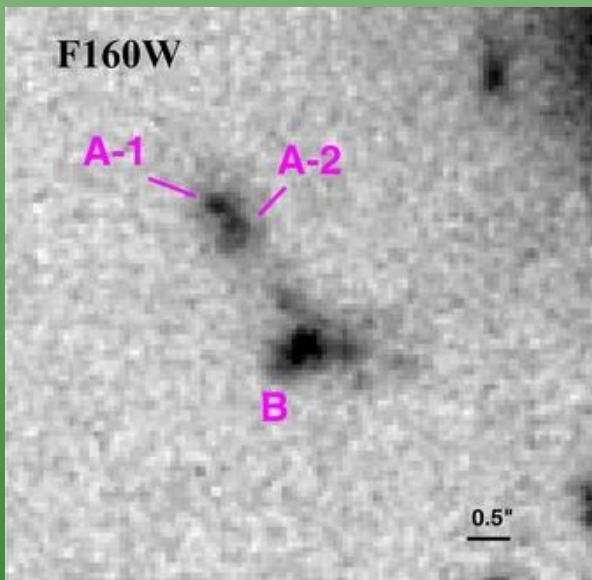
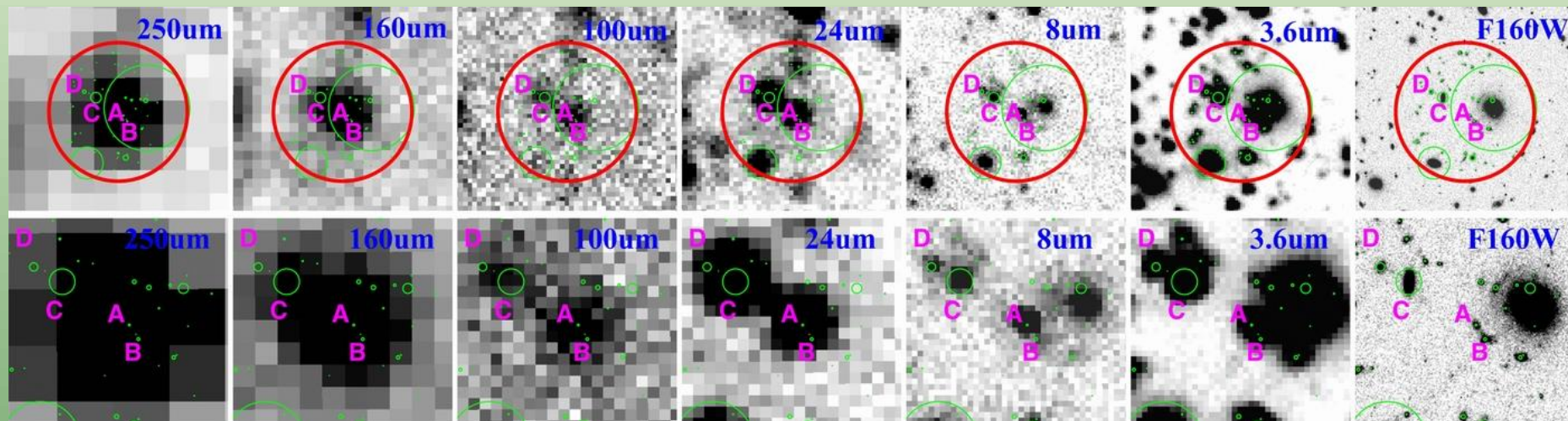
SHARDS published papers: HC+ (2013)

Hernán-Caballero et al. (2013)



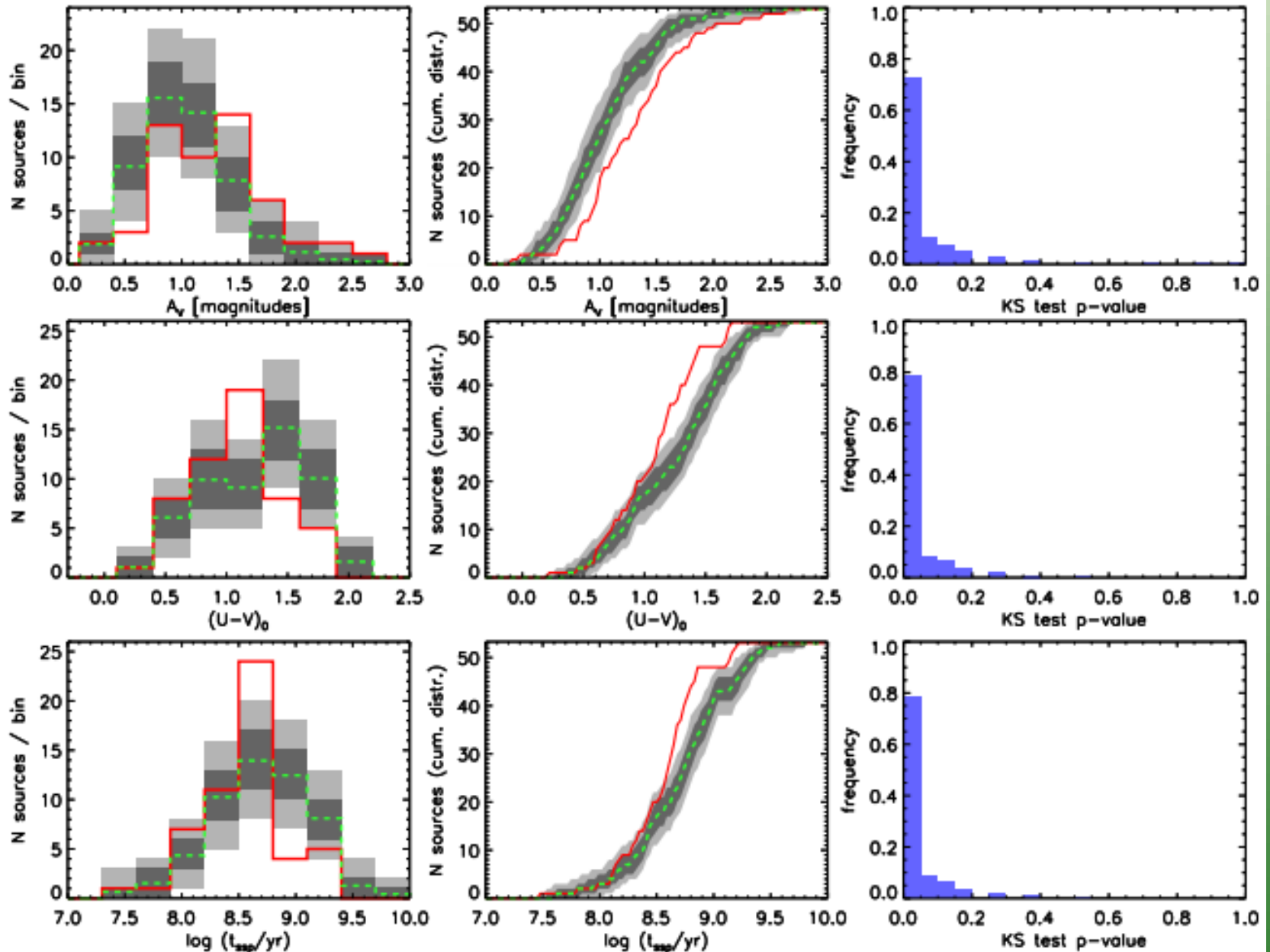
SHARDS published papers: Y+ (2014)

Yan et al. (2014)

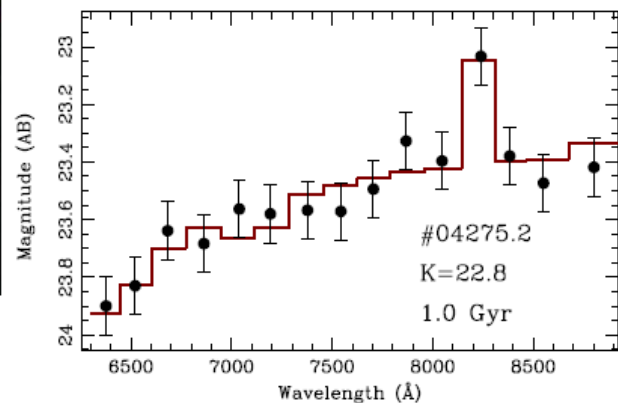
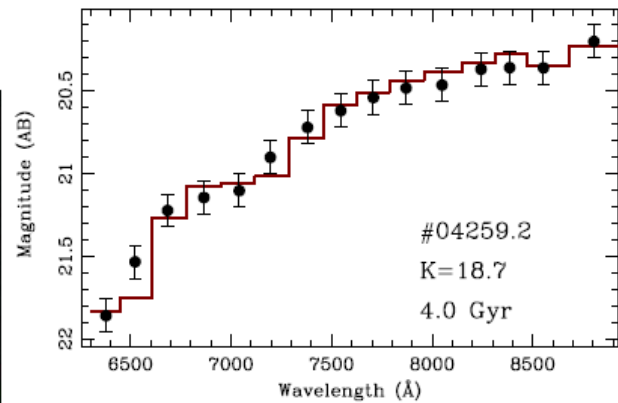
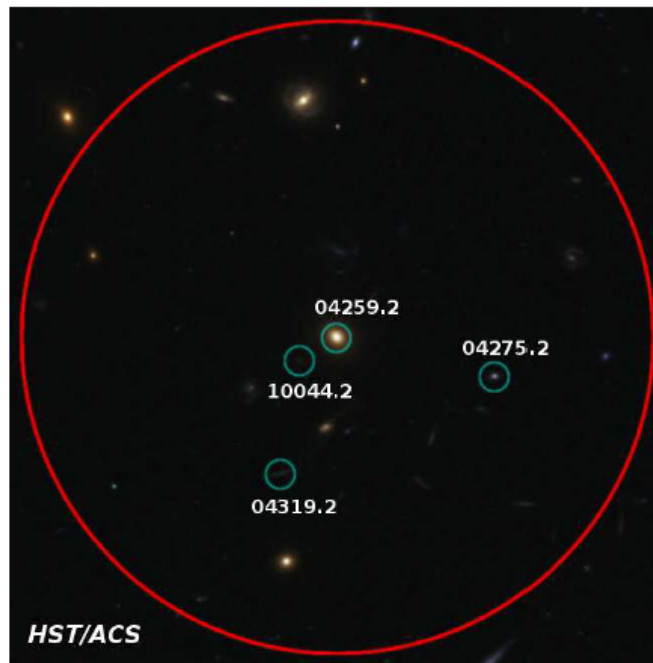
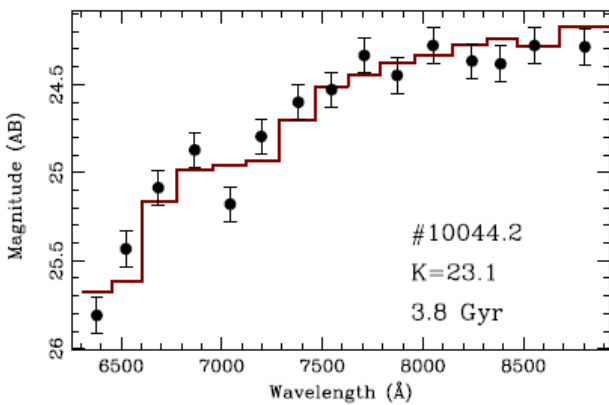
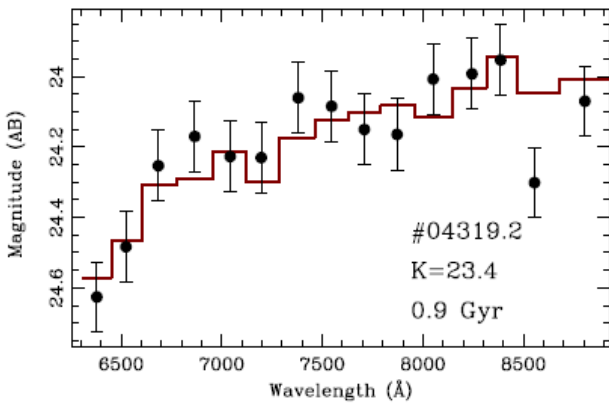


SHARDS published papers: HC+ (2014)

Hernán-Caballero et al. (2014)



SHARDS published papers: F+ (2014)



Ferreras et al. (2014)

SHARDS published papers: R-E+ (2014)

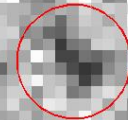
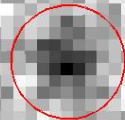
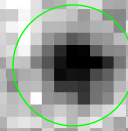


Subaru R

SHARDS F721W17

SHARDS F738W17

SHARDS F755W17



10"x10"

10"x10"

10"x10"

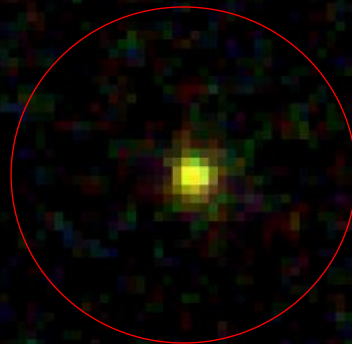
10"x10"

LAEs@z~5 (Rodríguez Espinosa+ 2014)

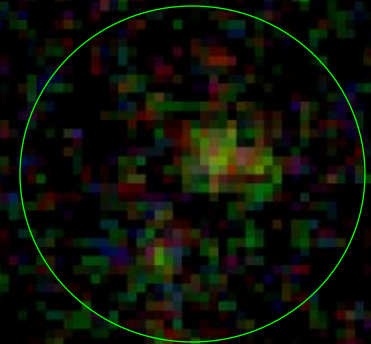
10"x10"



3"x3"



3"x3"

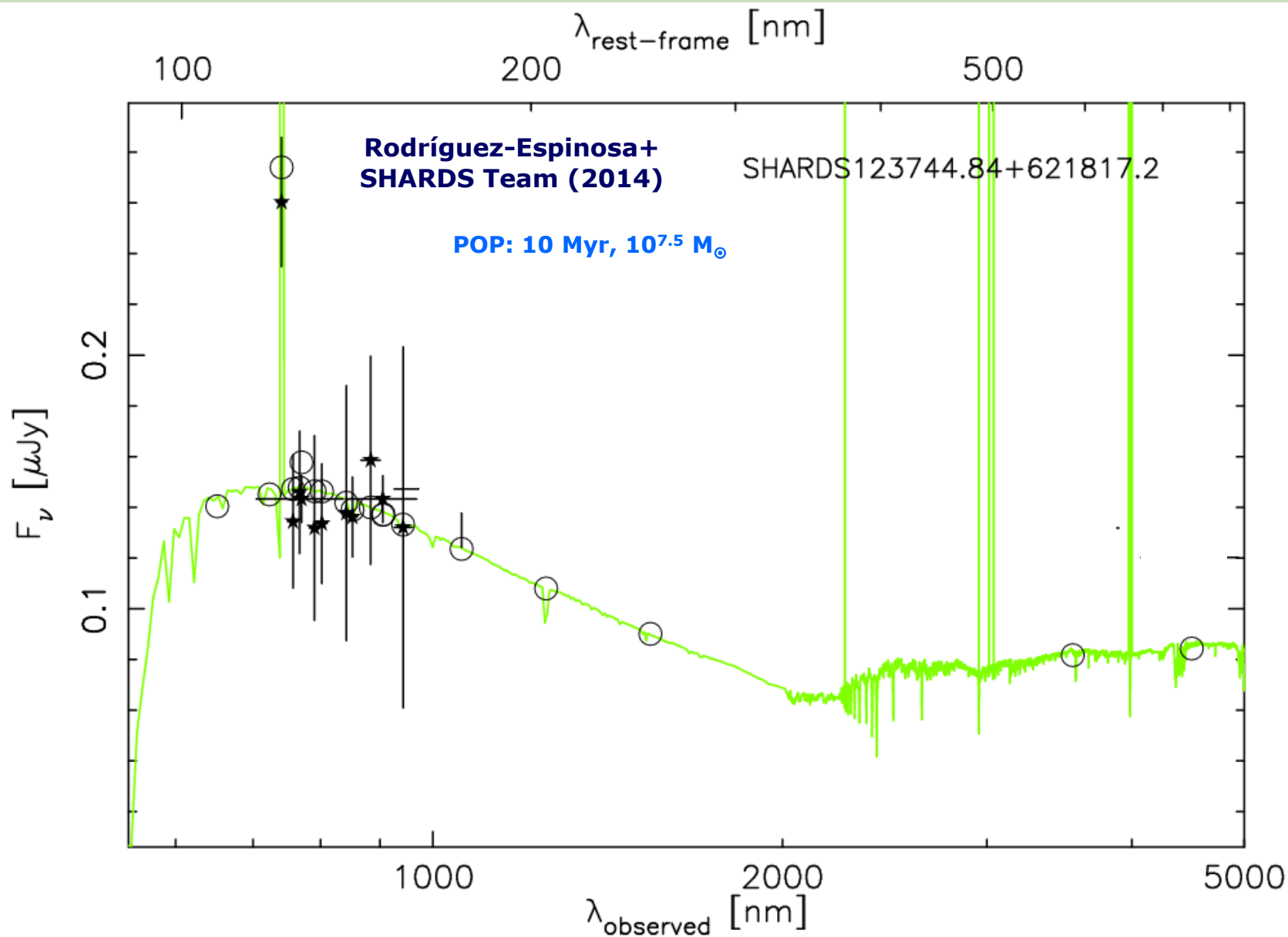


ACS

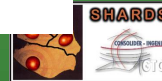
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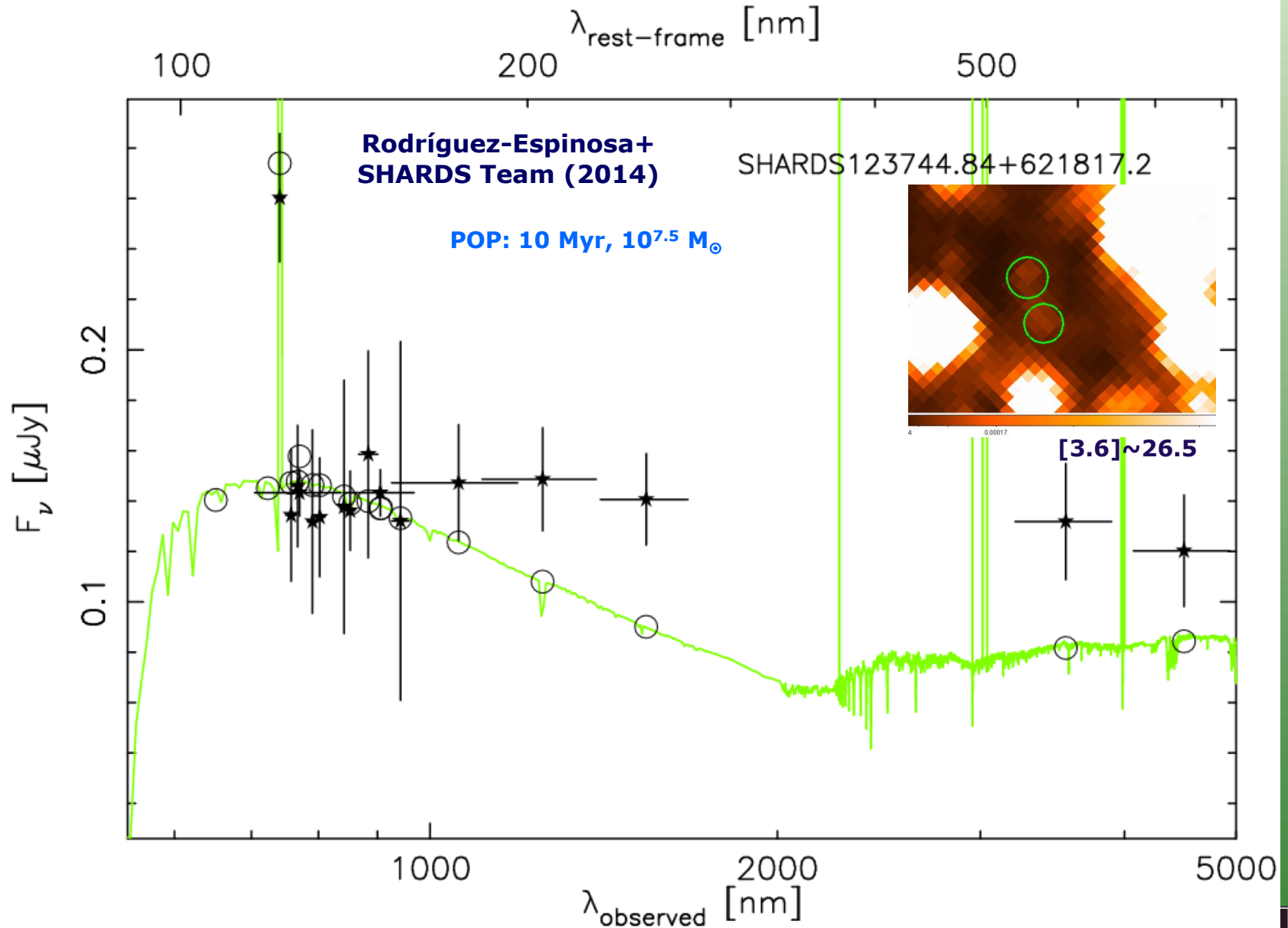
SHARDS published papers: R-E+ (2014)



Madrid, May 13-14, 2015



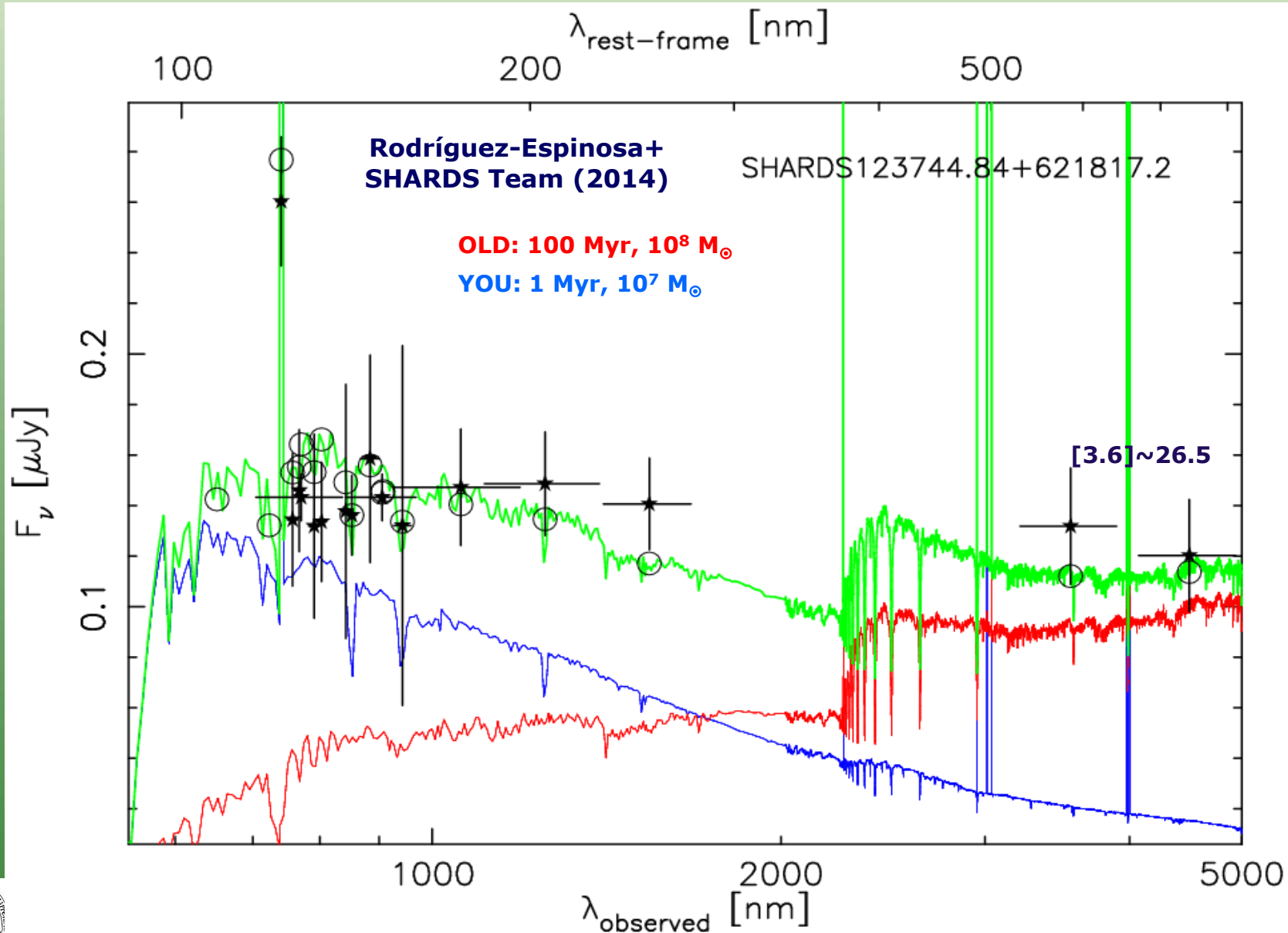
SHARDS published papers: R-E+ (2014)



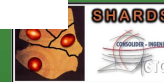
Madrid, May 13-14, 2015



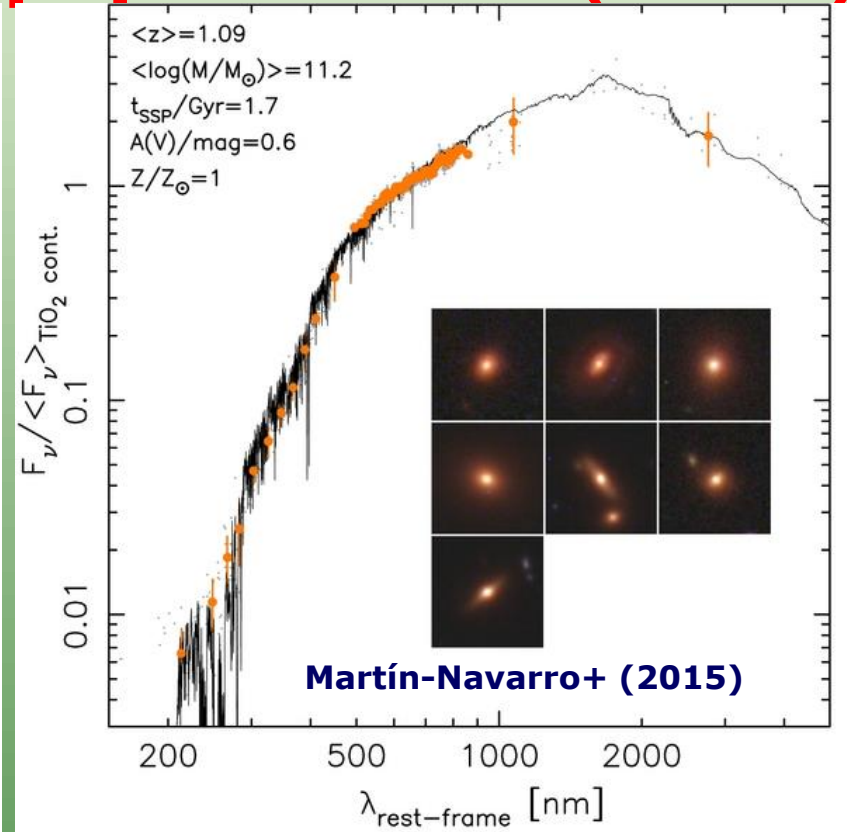
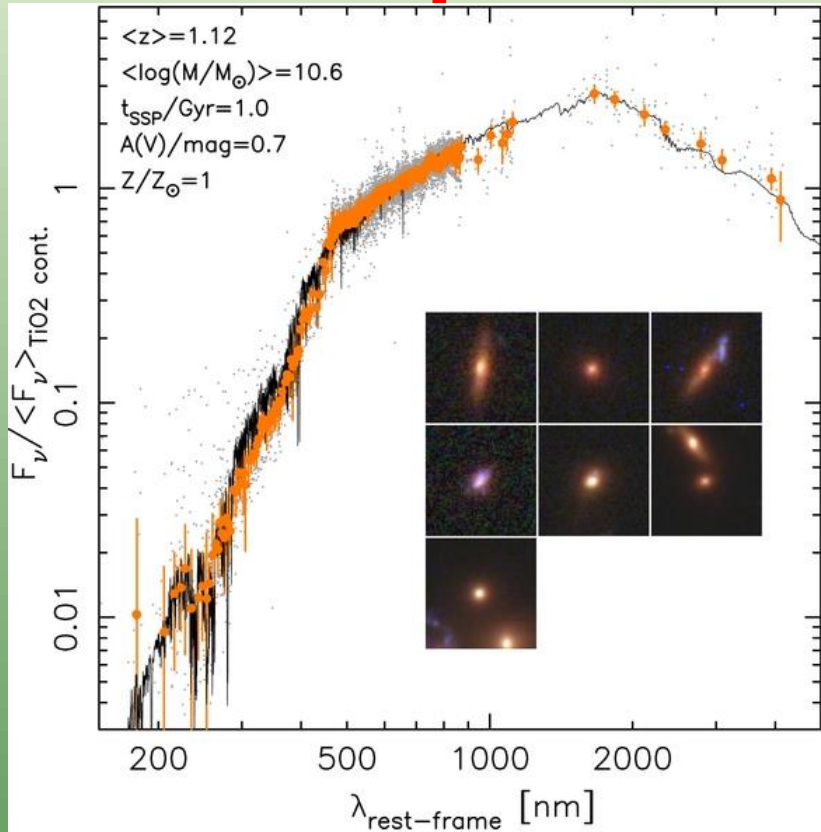
SHARDS published papers: R-E+ (2014)



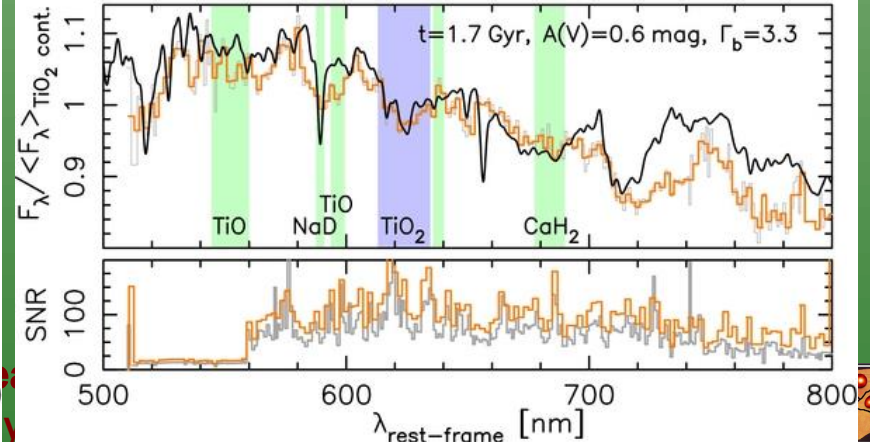
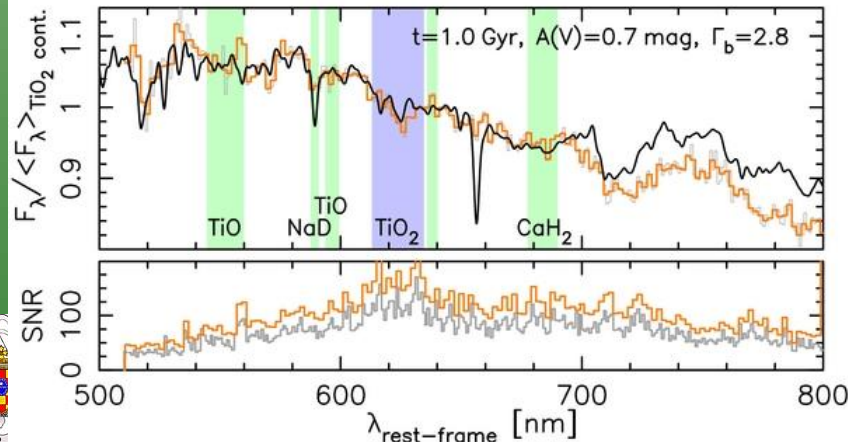
Madrid, May 13-14, 2015



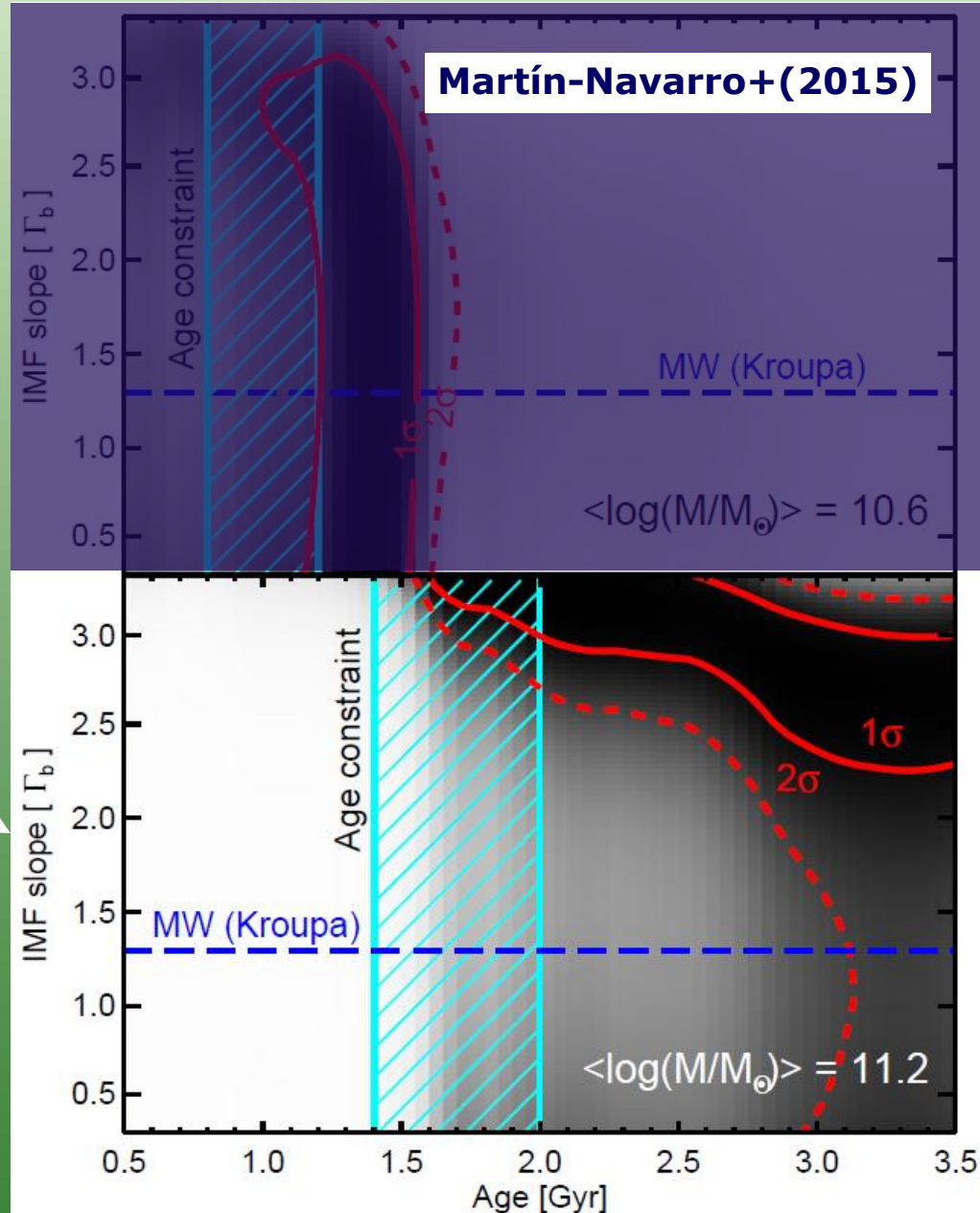
SHARDS published papers: M-N+ (2015)






Martín-Navarro+ (2015)



SHARDS published papers: M-N+ (2015)



Near (?) to submit papers (wiki-based list)

SHARDS002	SHARDS: a comprehensive view of ELGs	Cava, Pérez-González	Villar, Gallego , Tresse	abstract ELGs.txt	First draft:  SHARDS ELGs.pdf	April 15, 2015	Deadline for comments: Wed April 29, 2015
SHARDS0024	SFH of read&dead $z=1-1.5$ galaxies	H. Domínguez Sánchez	P. G. Pérez-González	 abstract.txt		Jan 30, 2014	Fall of 2014
SHARDS0025	The star formation history of X-ray selected AGN in SHARDS	P. Esquej	P. G. Pérez-González	 pe_shards_abstract.txt		Feb 3, 2014	Fall 2014
SHARDS0030	CAUGHT IN THE ACT: GAS AND STELLAR VELOCITY DISPERSIONS IN A INSIDE-OUT QUENCHING COMPACT STAR-FORMING GALAXY AT $Z=1.7$	Barro			Paper manuscript	Feb 20, 2015	March 2015



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Started projects (wiki-based list)

SHARDS008	Star Formation Histories of massive quiescent galaxies at $z \sim 2$	Pérez-González, Barro	Cardiel	abstract_sfh_z2.txt		June 21, 2013	End of 2013
SHARDS023	Building an unbiased sample of dead galaxies based on the Mg_{UV} absorption index	M. C. Eliche-Moral	P. G. Pérez-González	SHARDS023_abstract.txt		Jan 29, 2014	Fall of 2014
SHARDS0028	Characterising KI(M)-selected AGN candidates	H. Messias	A. Alonso-Herrero, A. Hernán-Caballero, P. Esquej	SHARDS0028-abstract.txt		Oct 29, 2014	
SHARDS0029	Evolution of the massive end of the Hubble sequence from $z \sim 3$	Huertas-Company, Daddi, Dimauro		SHARDS0029-abstract.rtf		Nov 4, 2014	
SHARDS0031	Exploring the dust properties in galaxies at $z \sim 2$ with SHARDS	E. Marmol-Queralto, I. Ferreras	A. Cava, K. Duncan, P. Perez-Gonzalez, R.J. McLure, L. Tresse	abstract_dust_SHARDS.txt	This project should merge with SHARDS006, interested parties in that project are included also here		



SHARDS Team Meeting II
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SHARDS data: what and where to find it?

■ IMAGES

- ➔ Reduced and calibrated images (v1.14.5b) for 24 bands (500 to 941 nm), 2 pointings. **iDR3 available in SHARDS webpage.**
- ➔ Improvements: more data, better masking of faint objects and halos, better sky subtraction, improved WCS (0.2" problem in Subaru images), fringing, recalibration based on TFIT. Still calibration problems with F568W17.
- ➔ F913W25 (GO in 2014B, 2015AB) probably arriving soon.

■ CATALOGS

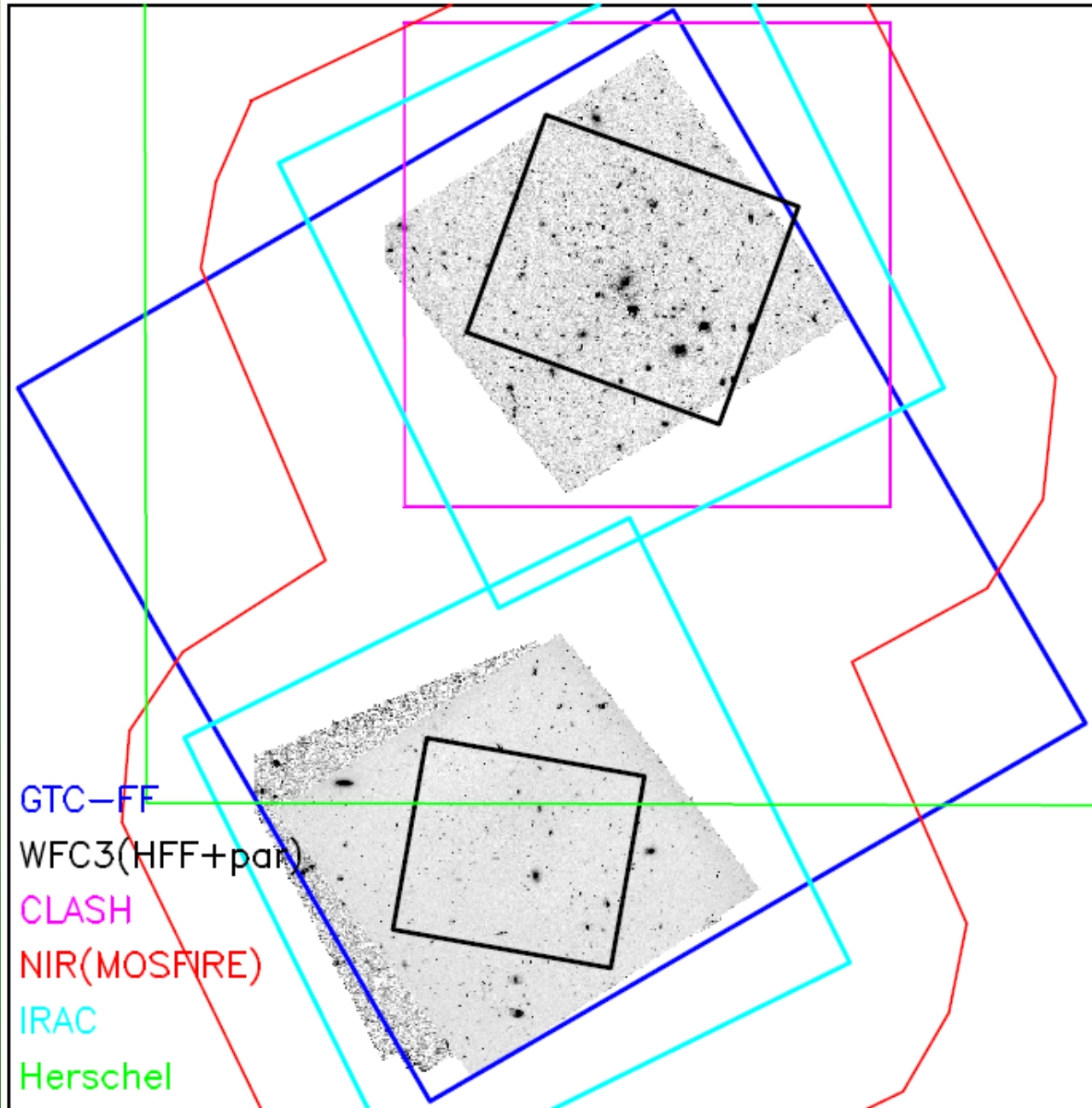
- ➔ Merged SHARDS photometric catalogs (circular and "best" apertures). Combined selection at all bands including GOODS/CANDELS/stacks, forced measurements. **iDR3 available in SHARDS webpage.**
- ➔ Combined catalog including all ancillary data: **Rainbow SHARDS flavor iDR2 available.**
- ➔ TFIT catalog (attached to CANDELS catalog). To be released.

■ OTHER DATA

- ➔ Filter characterization data. **SHARDS webpage.**
- ➔ Emission line sources at interm- and high-z (on demand).
- ➔ Follow-up source lists (nothing yet).

GTC Frontier Fields

**MACS114
(also A370)**



Goals of this meeting

- ➔ **Push those 9 papers forward!!!!**
- ➔ **Presentation of on-going and future projects (partially/fully) based on SHARDS data.**
- ➔ **Brain-storming to produce a list of specific papers with commitments and deadlines:**
 - **Must-do papers (and must do them quick).**
 - **General papers.**
- ➔ **Follow-ups and extensions (e.g., EMIR).**

