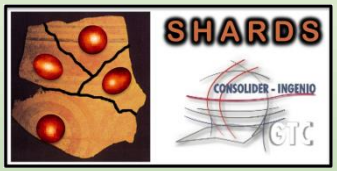


SHARDS: ELGs at interm-z

On behalf of Antonio Cava

Greatest result from SHARDS

SHARDS view on emission-line galaxies

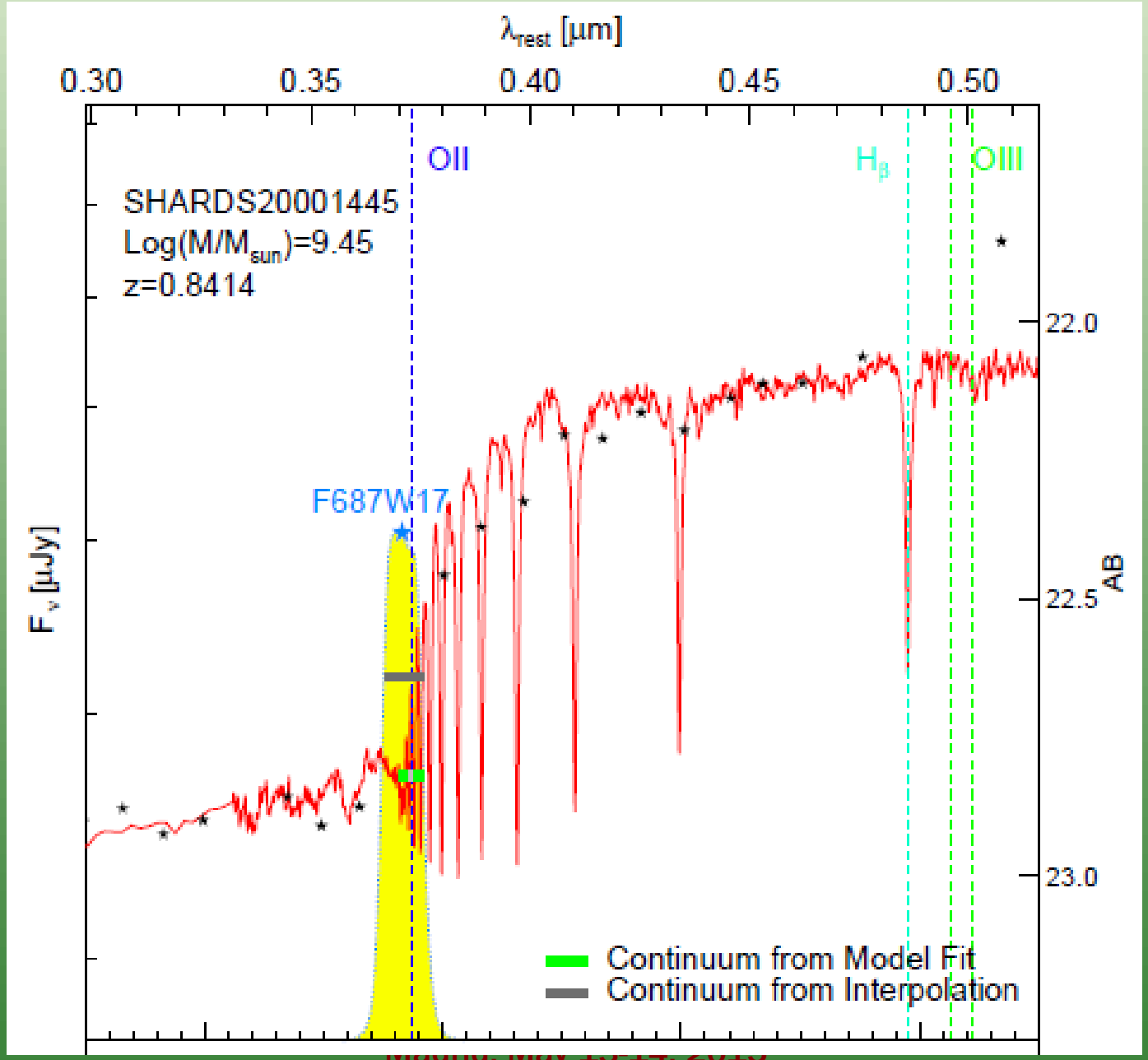
WHAT CAN SHARDS ADD?

- Emission-line measurements (Hα, [OIII], [OII], Lyα) with similar flux limit to spectroscopy, but with no target selection effects (i.e., sample completeness is high) down to 27 mag.
- Continuous coverage of 500<λ<950 nm window allows to probe all redshifts, not just a few windows (cf. to narrow-band).

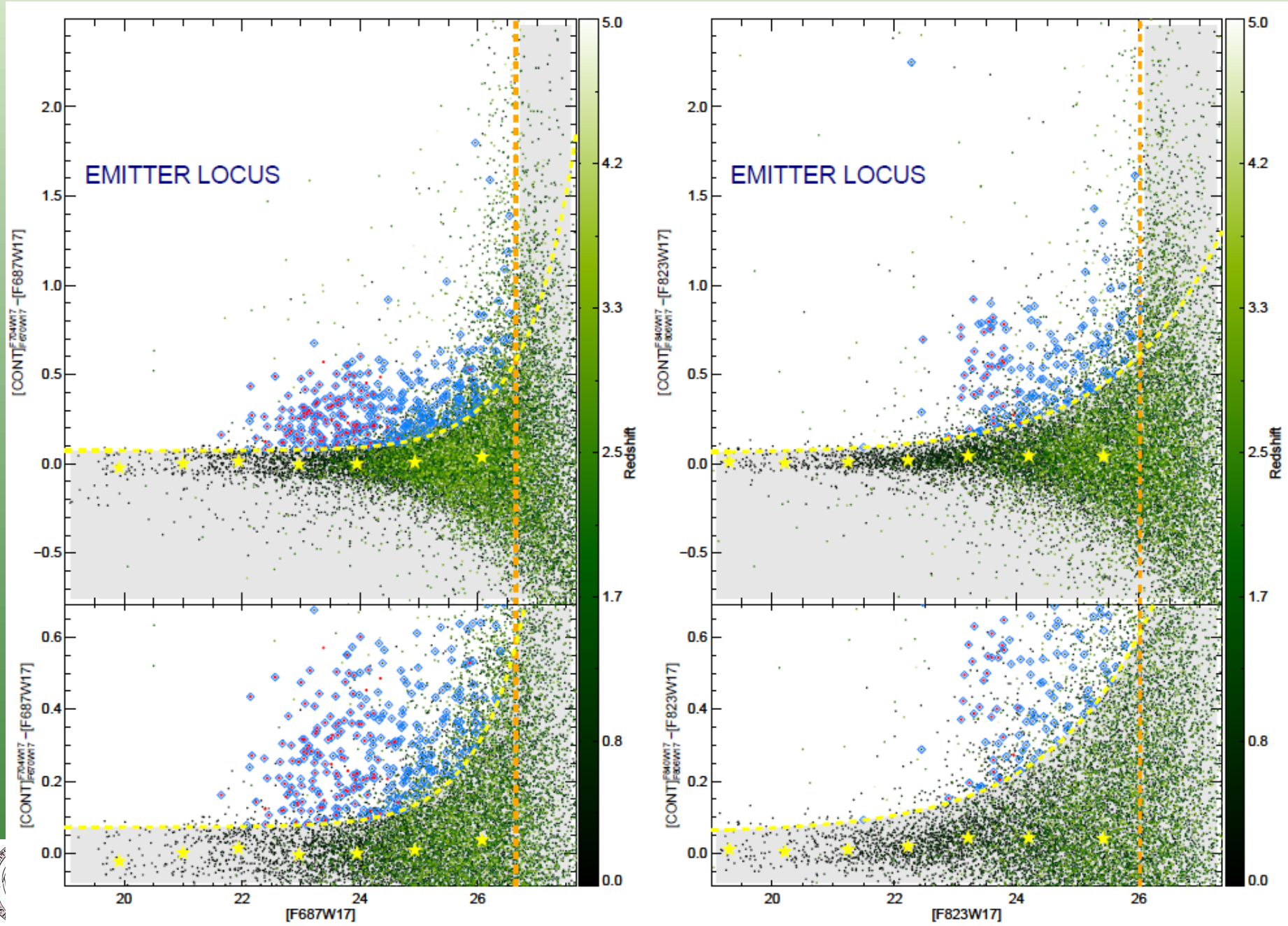
GOALS OF THIS PAPER

- Evaluate performance of SHARDS in detecting ELGs.
- Build a complete census of star-forming galaxies at z~0.8 and z~1.2, and perform a comprehensive analysis of their physical properties.
- Probe the star formation properties at the faint-end of the mass function.
- Compare SFR indicators.
- Characterize the dust attenuation law in a complete sample of star-forming galaxies at interm-z.

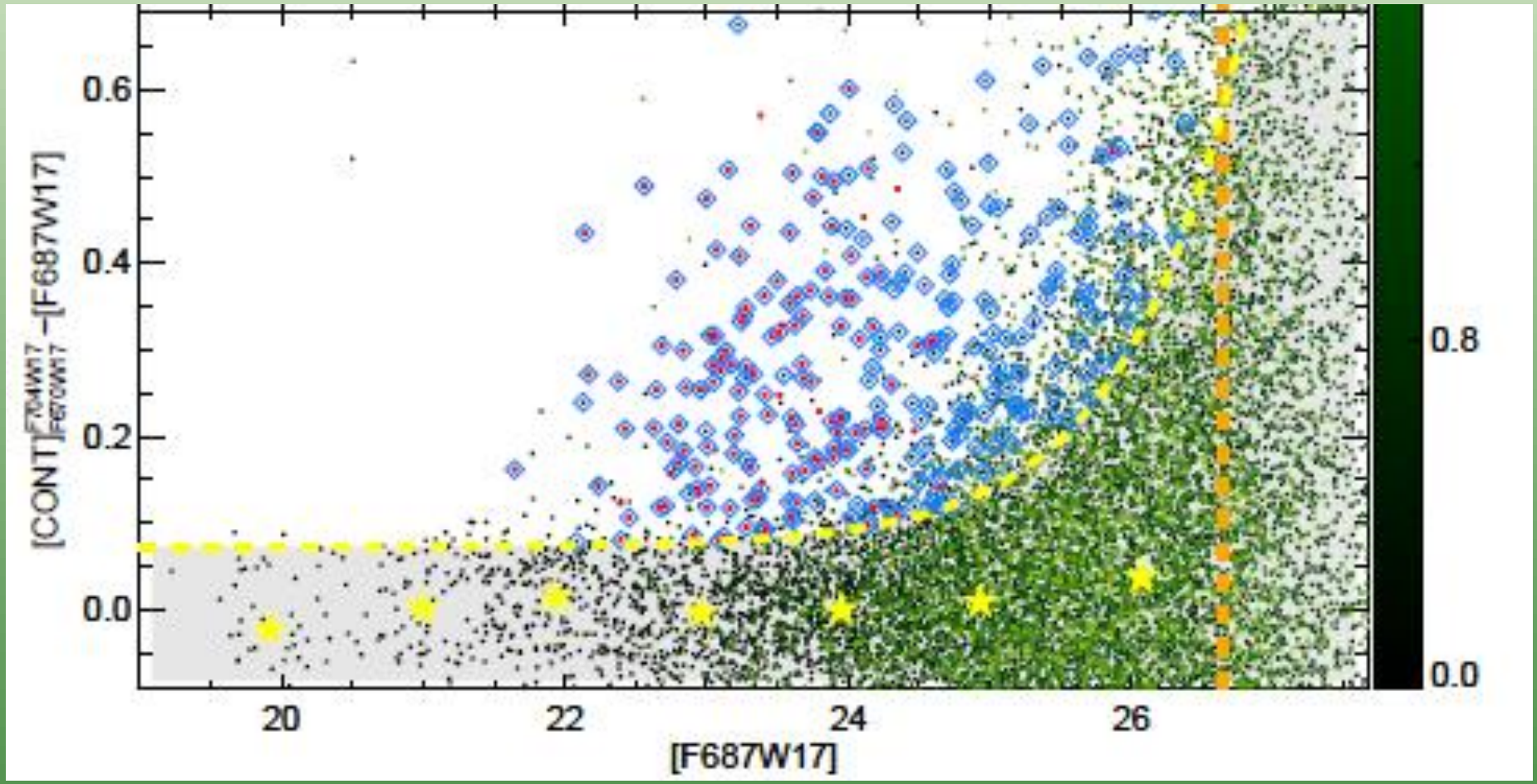
SHARDS: basics about ELG detection



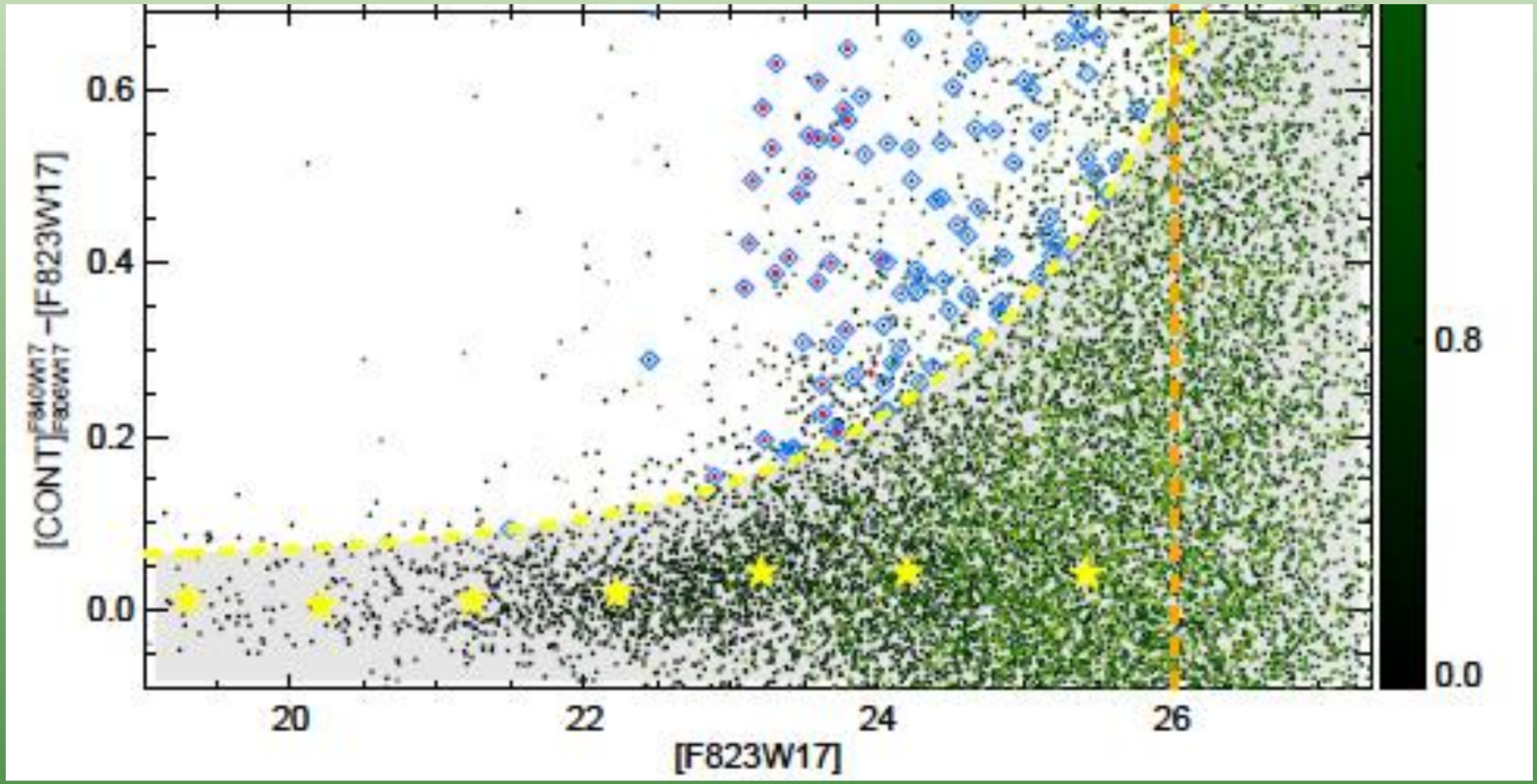
SHARDS: statistical ELG detection



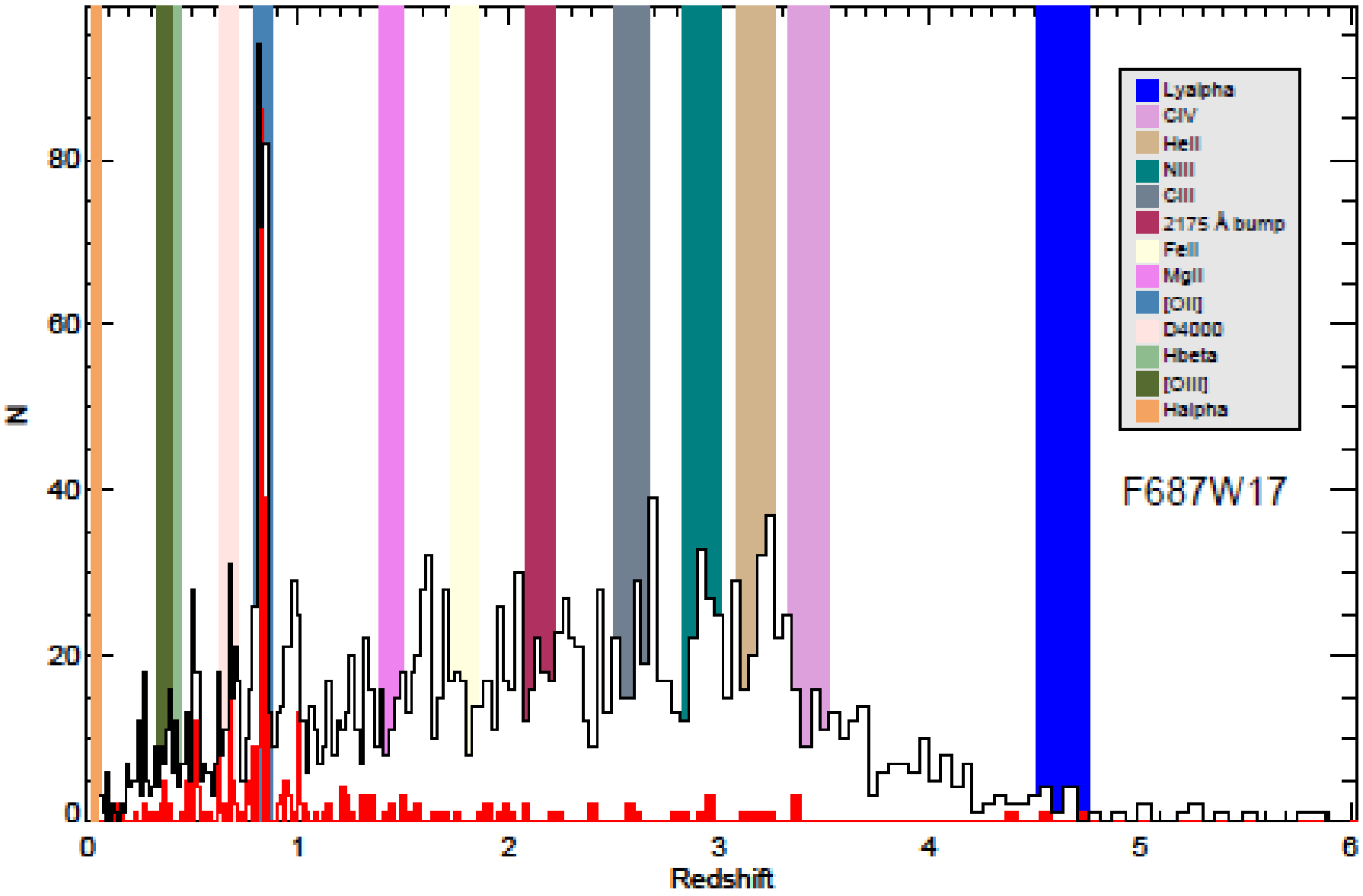
SHARDS: statistical ELG detection



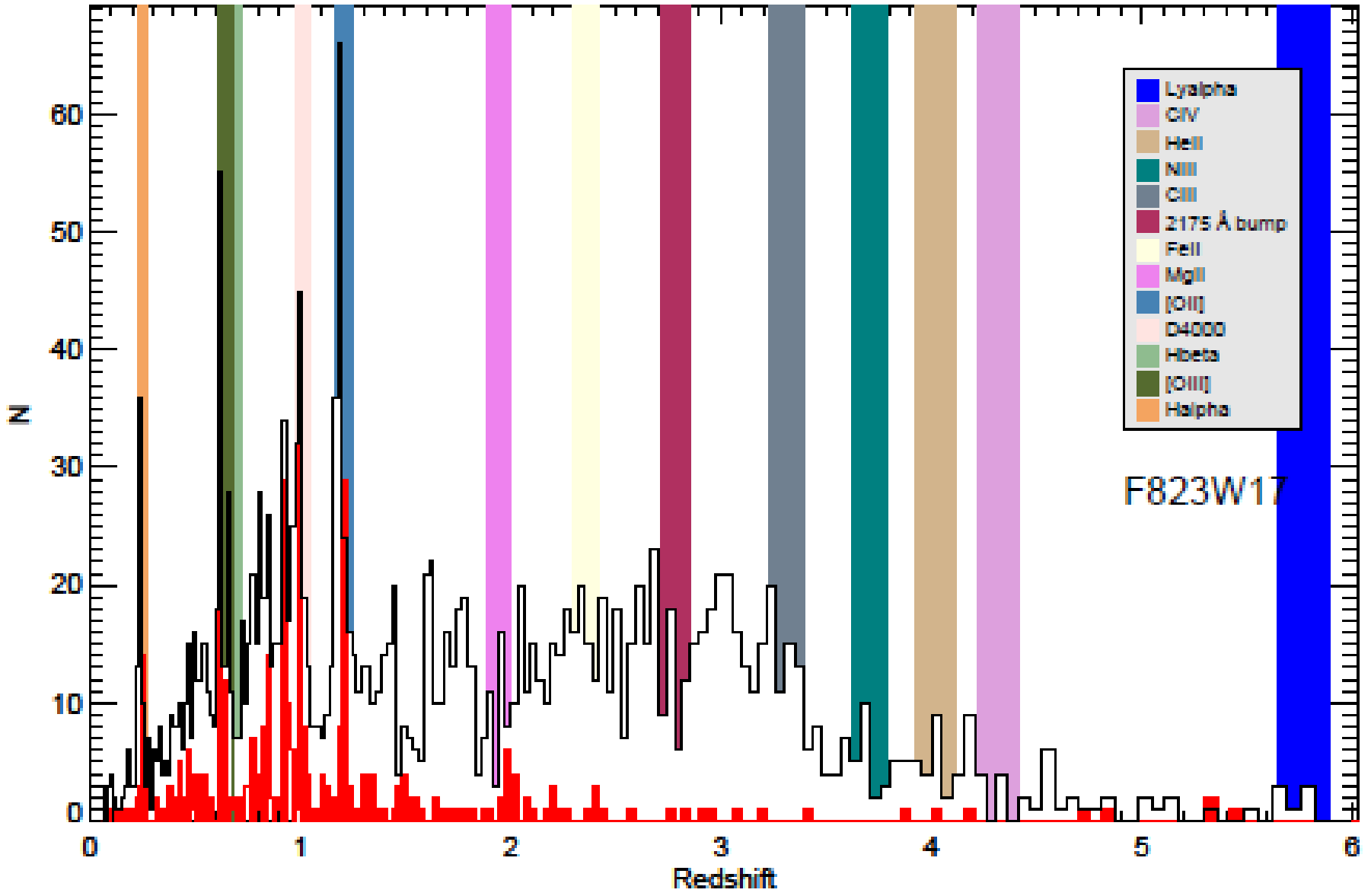
SHARDS: statistical ELG detection



SHARDS: characterizing ELG candidates



SHARDS: characterizing ELG candidates



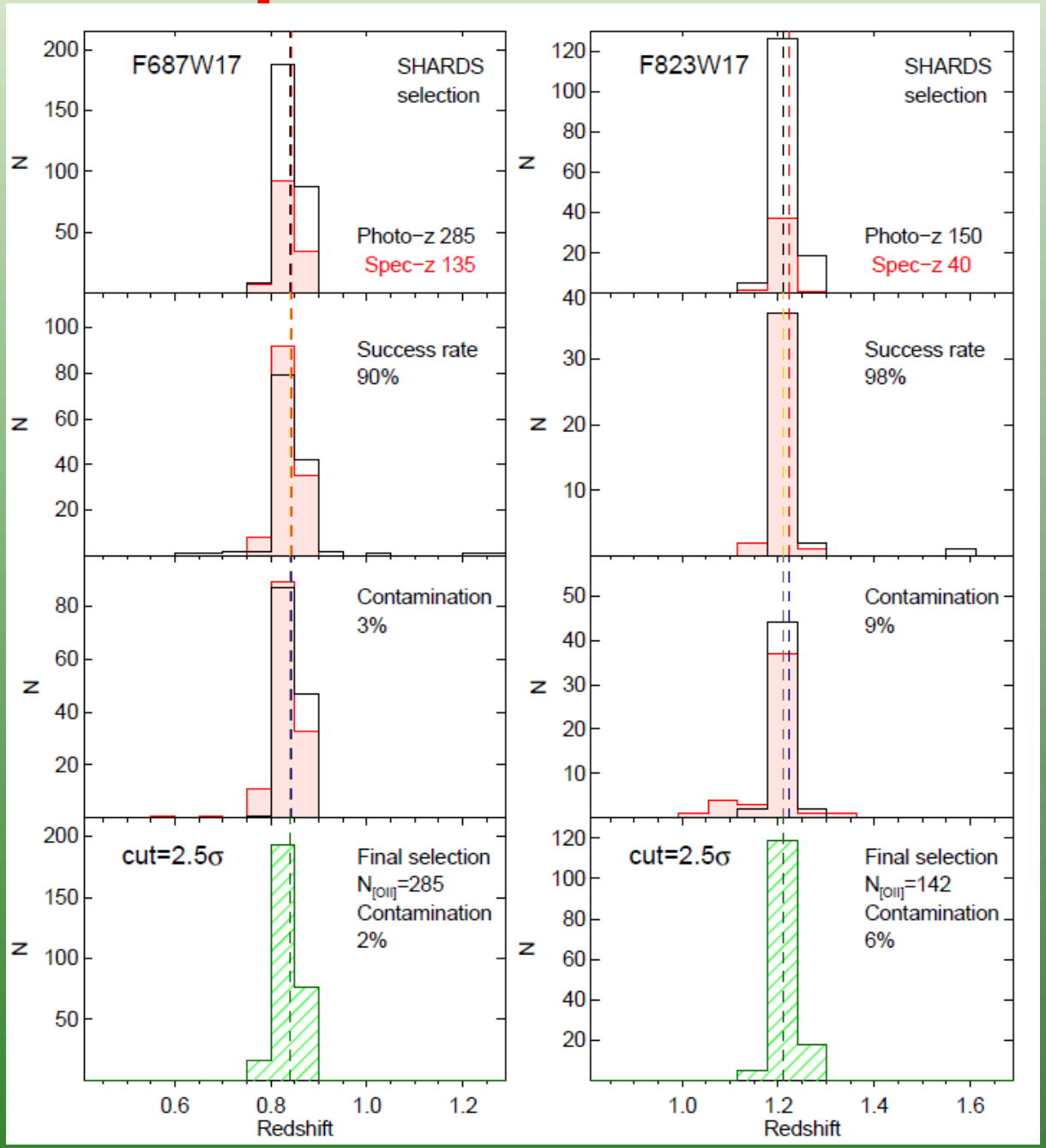
SHARDS: completeness and contamination

All selected galaxies

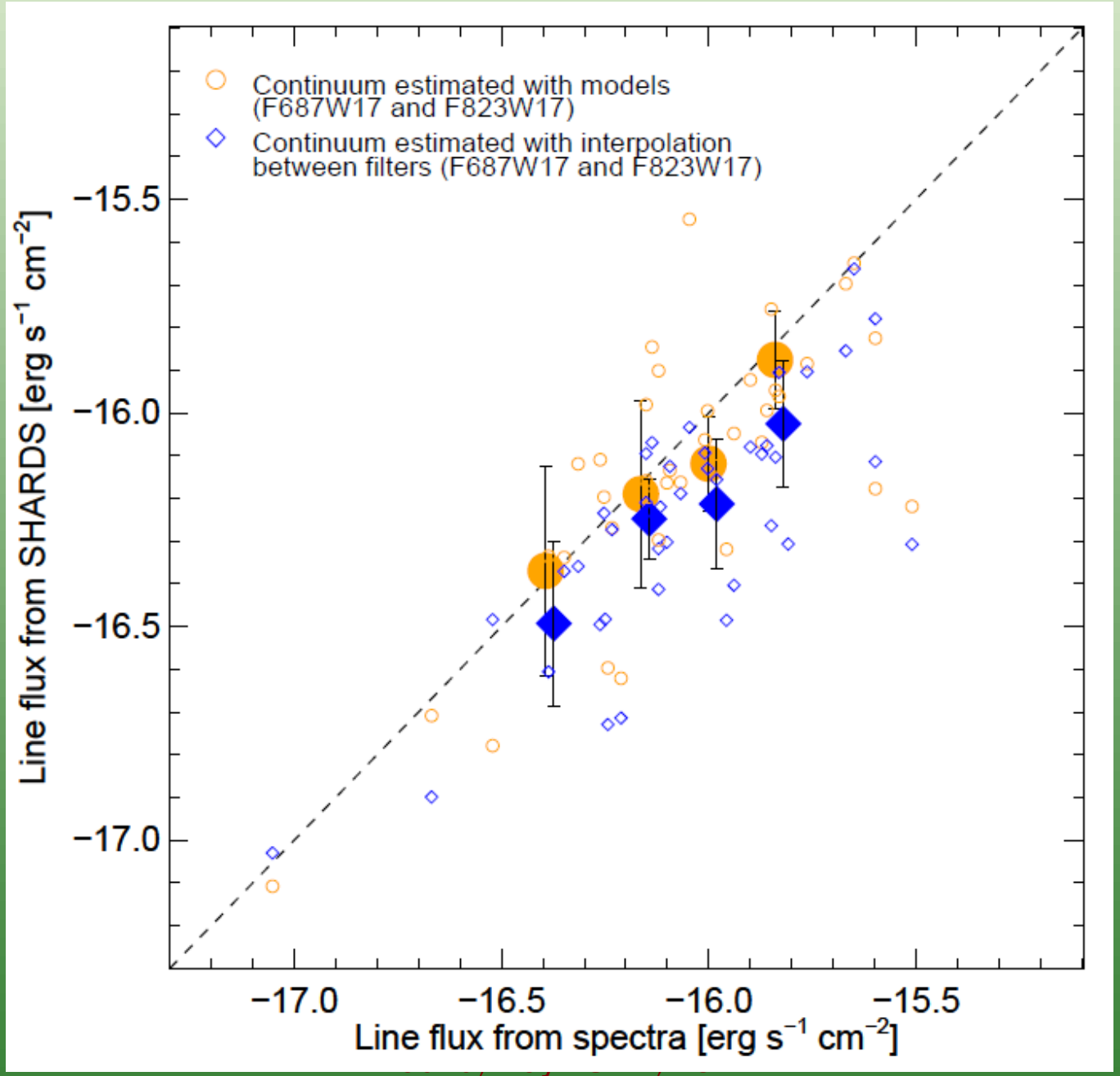
Fraction of confirmed emitters recovered

Fraction of confirmed galaxies at z≠0.84

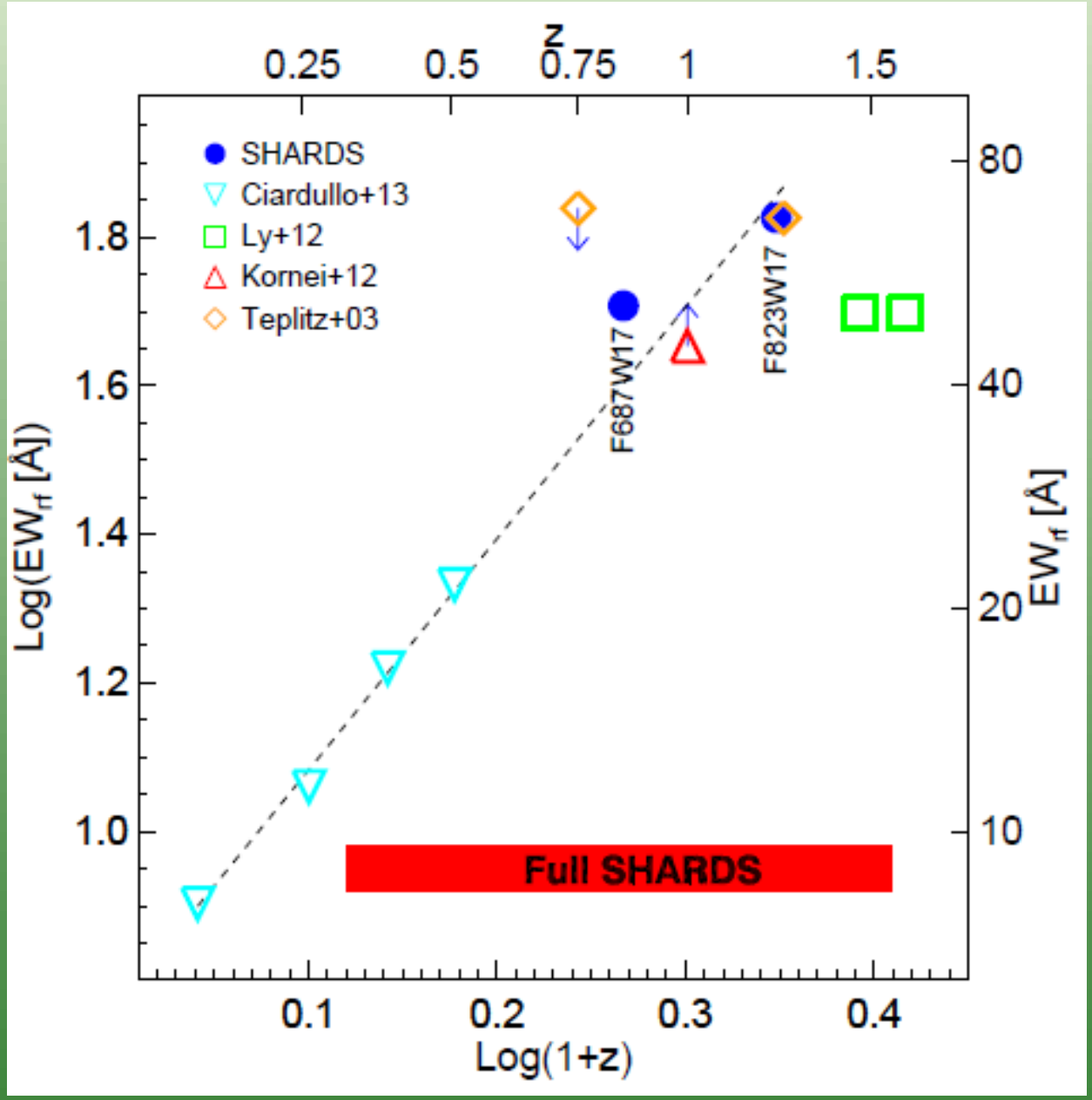
Final sample



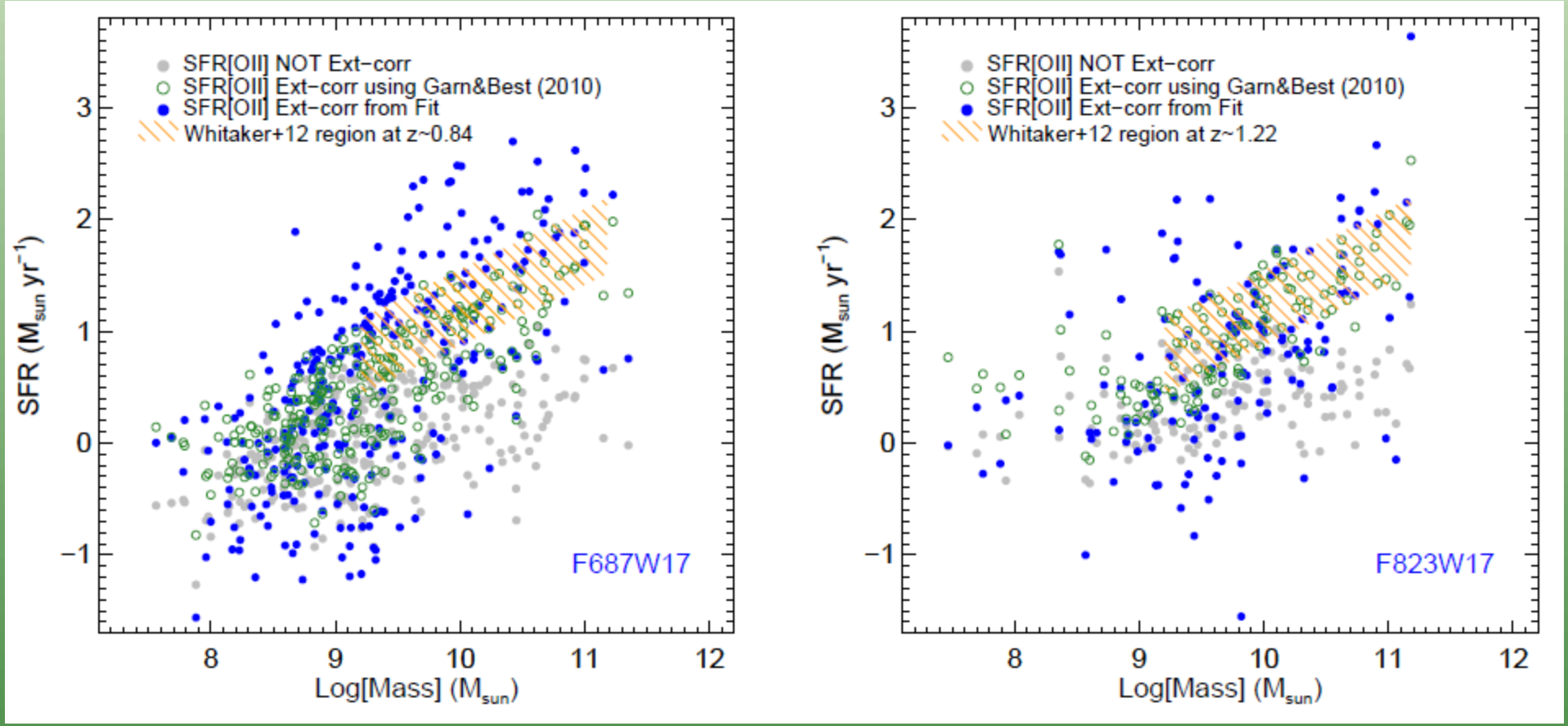
SHARDS: measuring emission-line fluxes



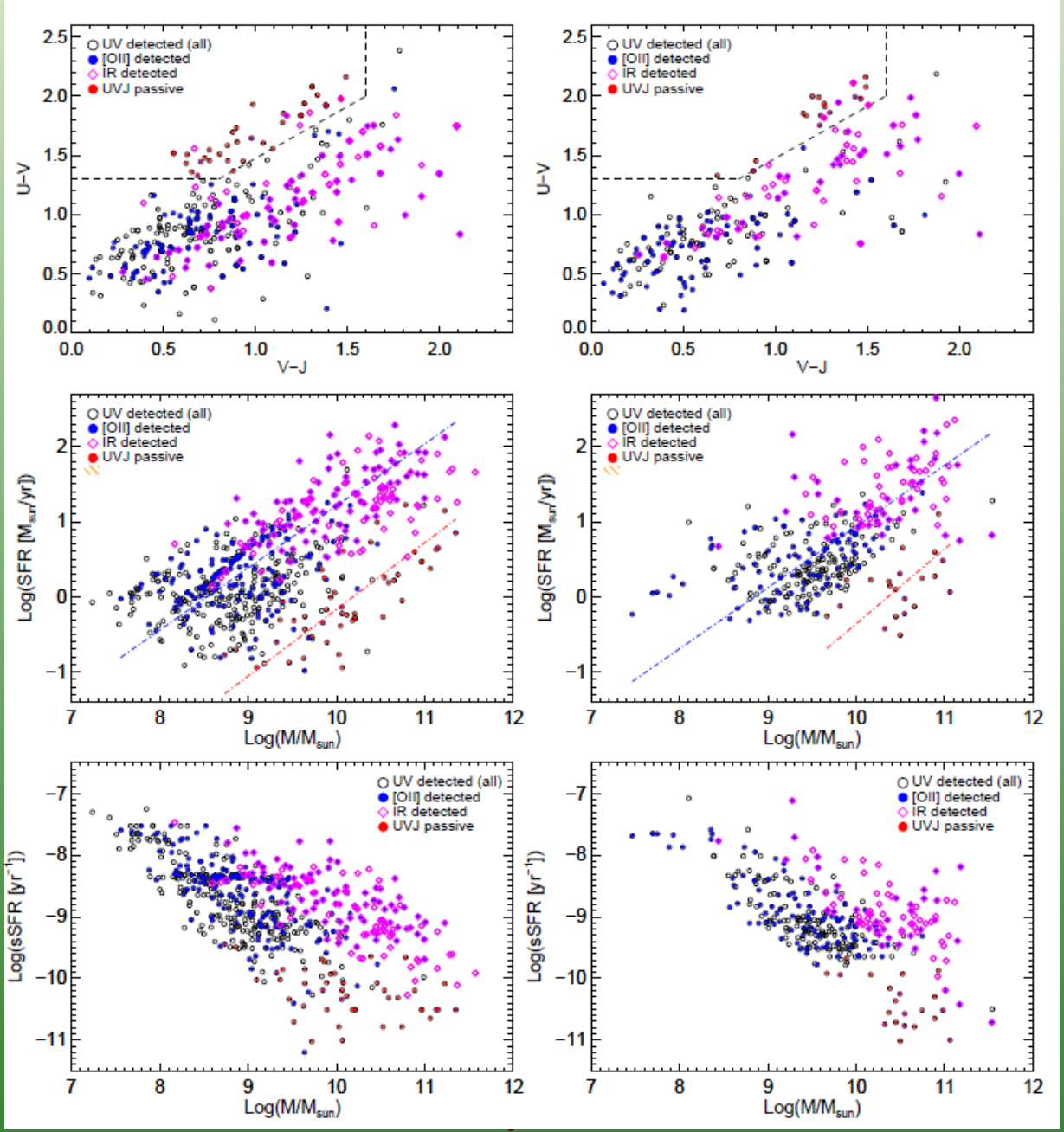
Evolution of the EW distribution



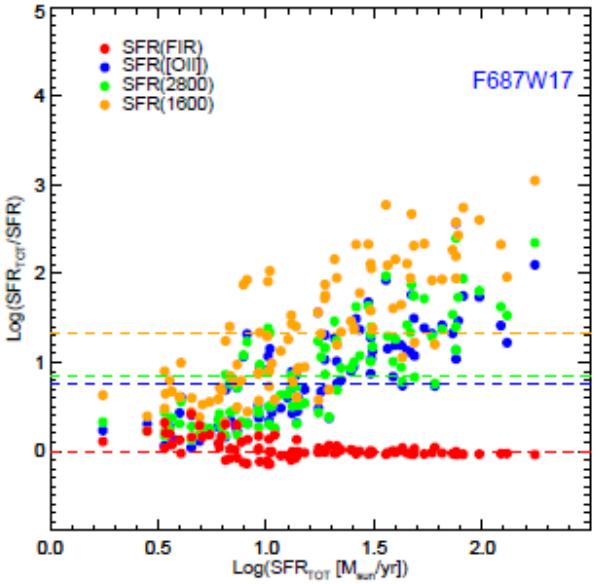
The Main Sequence using all SFGs

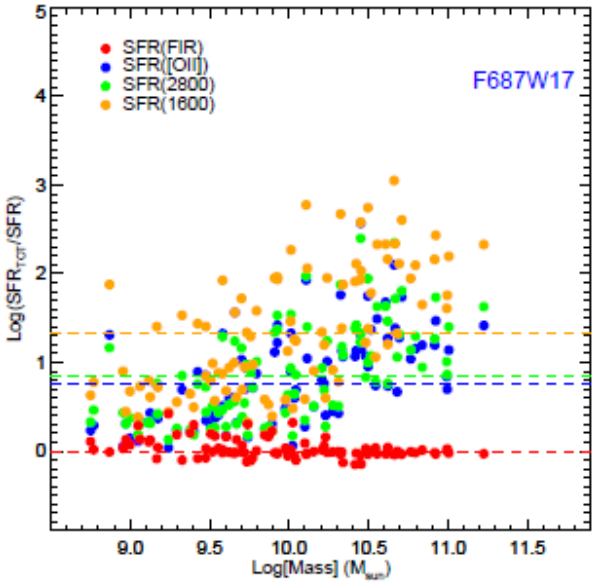


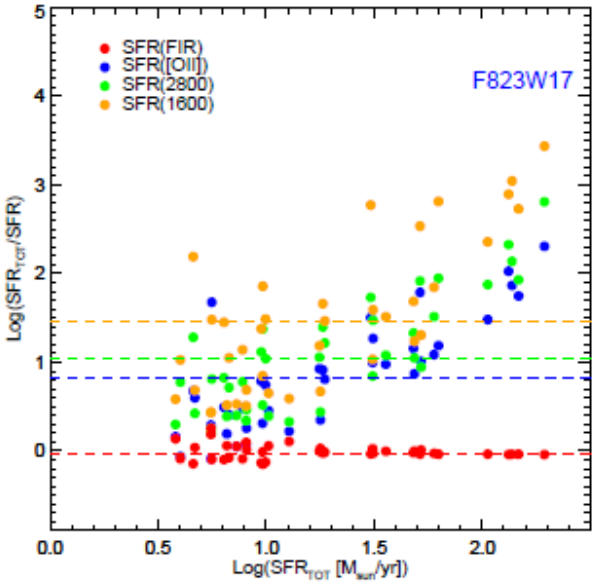
UVJ diagram with all SFGs

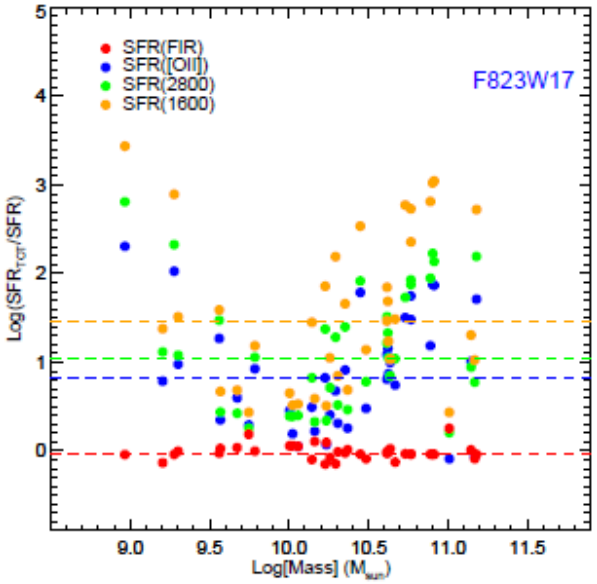


Comparison of SFR tracers

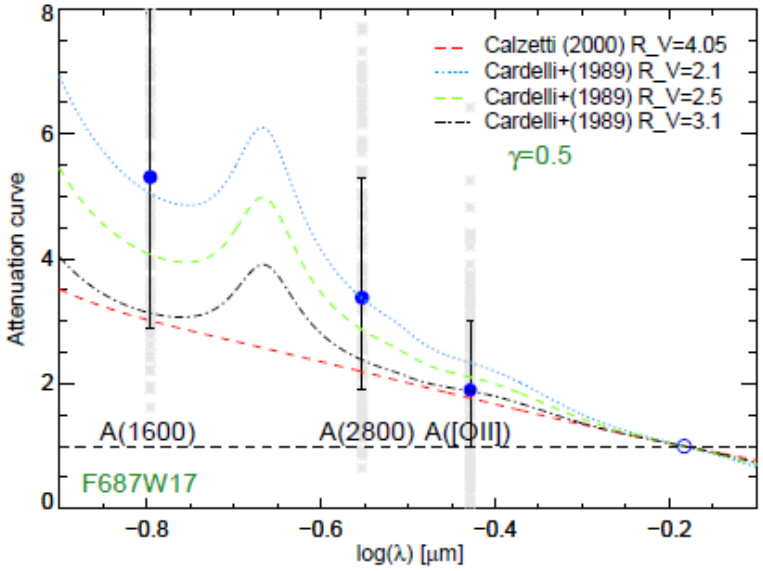


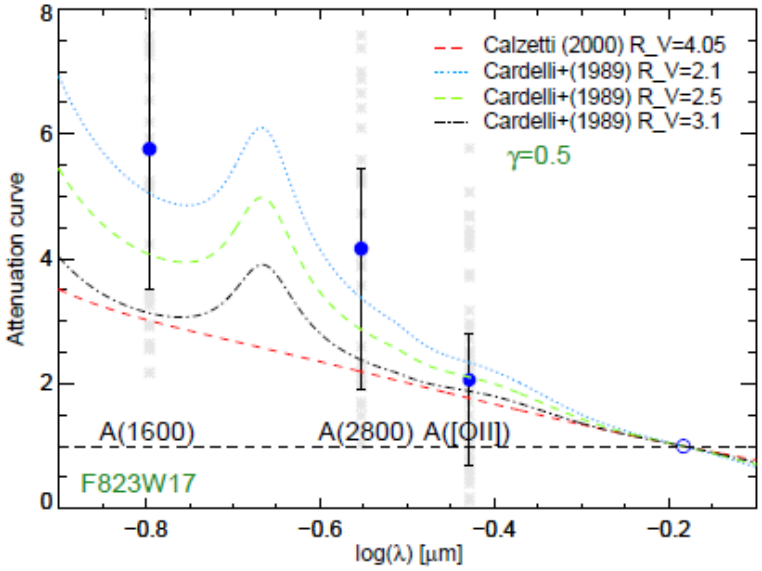


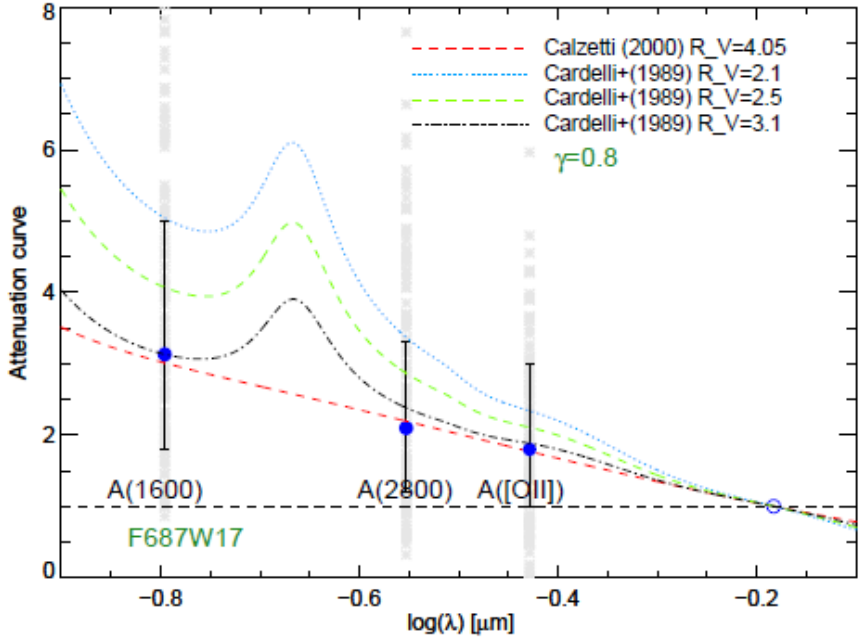


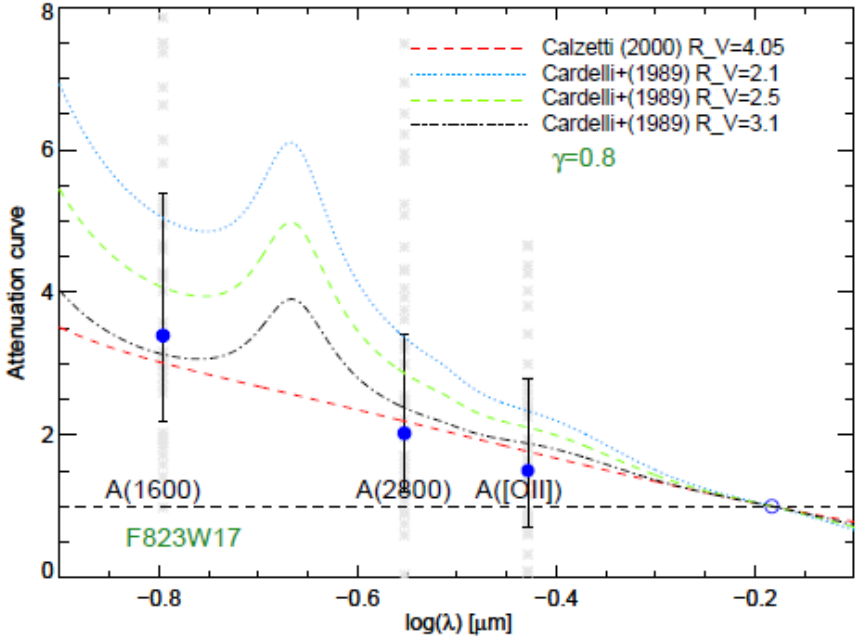


The attenuation law (for stars and gas)









SHARDS view on SFGs at z~0.84 and z~1.23