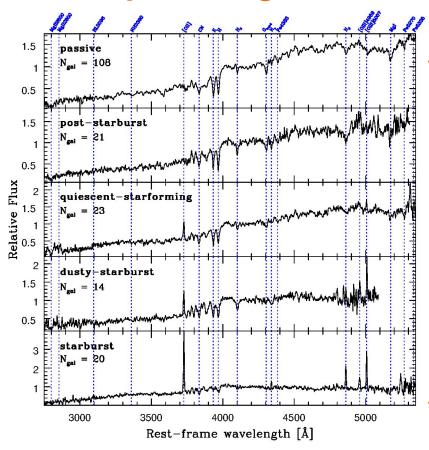
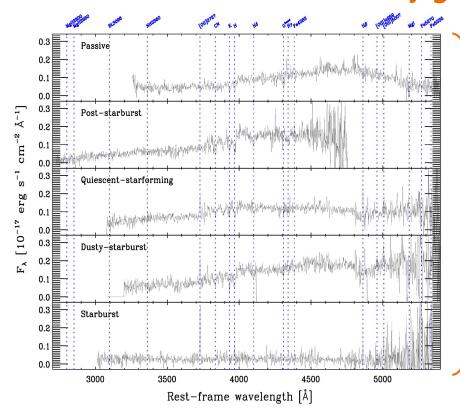
## Templates of galaxies residing in cluster at z~1



Composite spectra Nastasi et al. 2013

## An automatic tool to classify galaxy spectra motivated by



Thousands of galaxy candidates residing on XDCP clusters

Troncoso Iribarren et al. in prep.

Yanis, Pichara & Troncoso Iribarren submm to A&A

## An automatic tool to classify galaxy spectra

- > is a machine learning based algorithm.
- > for each spectrum, it returns the probability of certain class.

until now it was trained with 200 spectra of galaxies that resides on cluster environment at high-redshift.

> Public version as a Phyton notebook, https://github.com/tomasyany/spectra

Yanis, Pichara & Troncoso Iribarren submm. to A&A