Galaxies, Étoiles et Cosmologie (GÉCO)









This presentation:

- is based on the «HCERES » document version circulated earlier. « Final » version mid-July for the University
- may be used in part for next CS, HCERES visit
- describes GECO activities and results
- introduces perspectives for GECO science





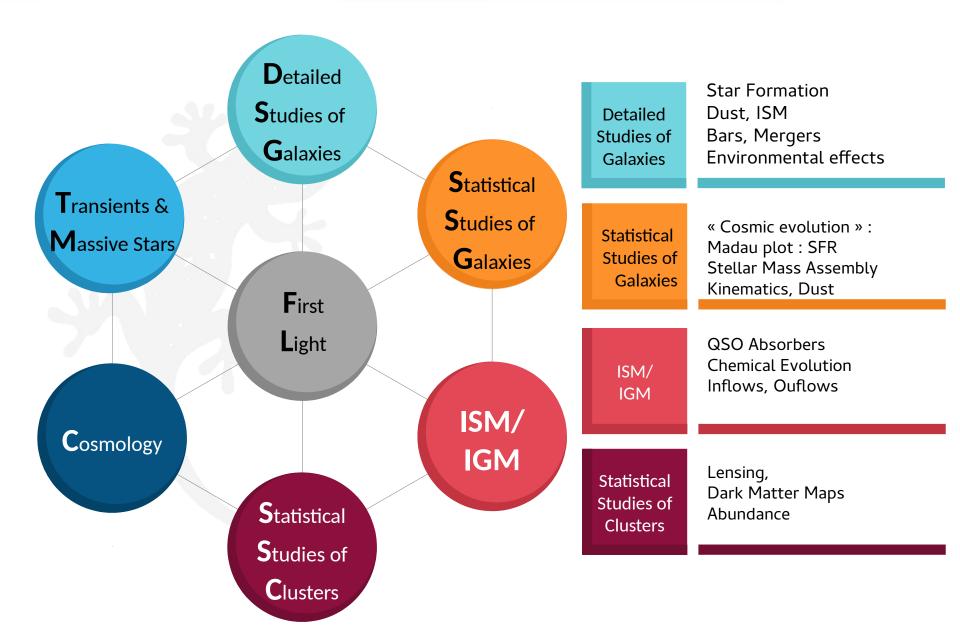
- Team formed on January 1st, fusion of 5 previous teams (MIS, Pdg, Cosmologie, PSEG, DynGal)
- 36 staff
- 19 PhD students
- 12 post-doctoral researchers.







Galaxies, Étoiles et Cosmologie



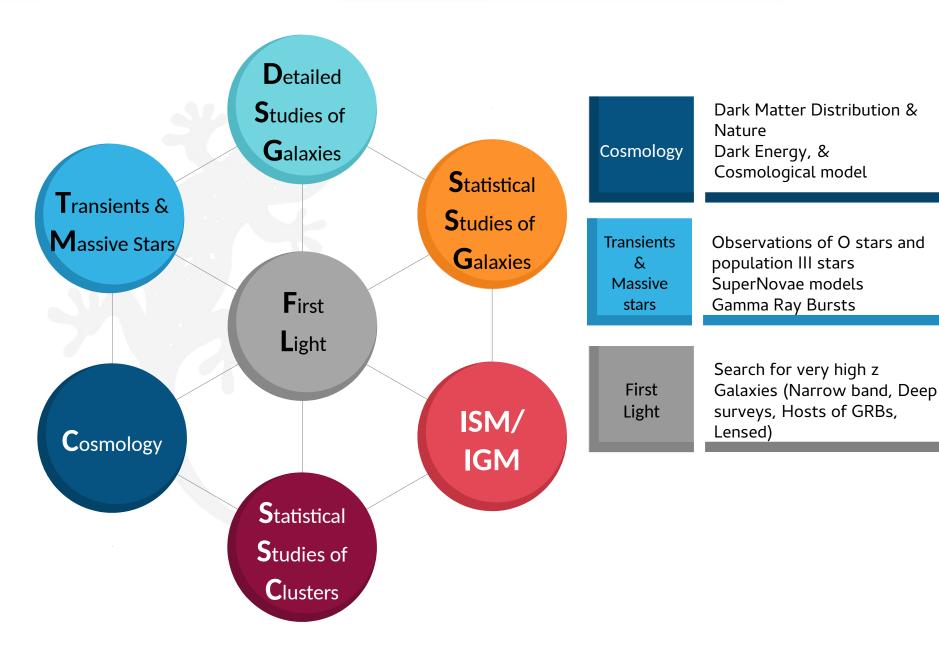








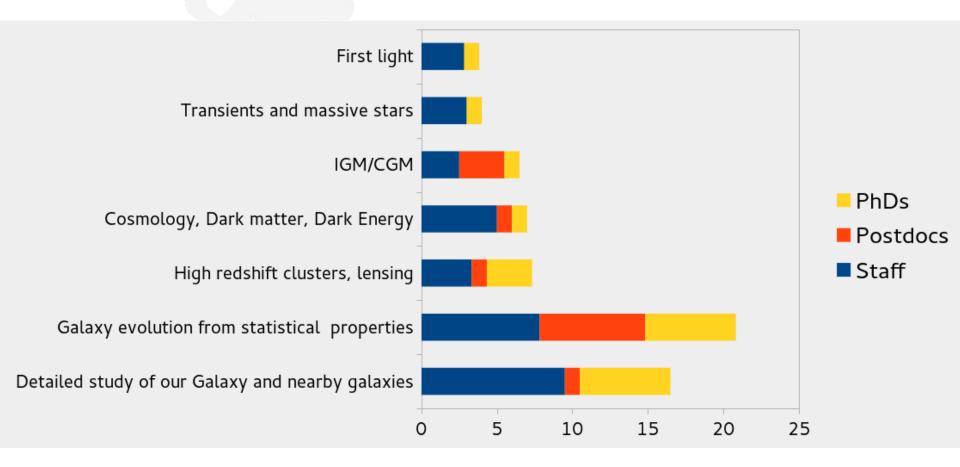
Galaxies, Étoiles et Cosmologie







Ressource distribution on the different themes

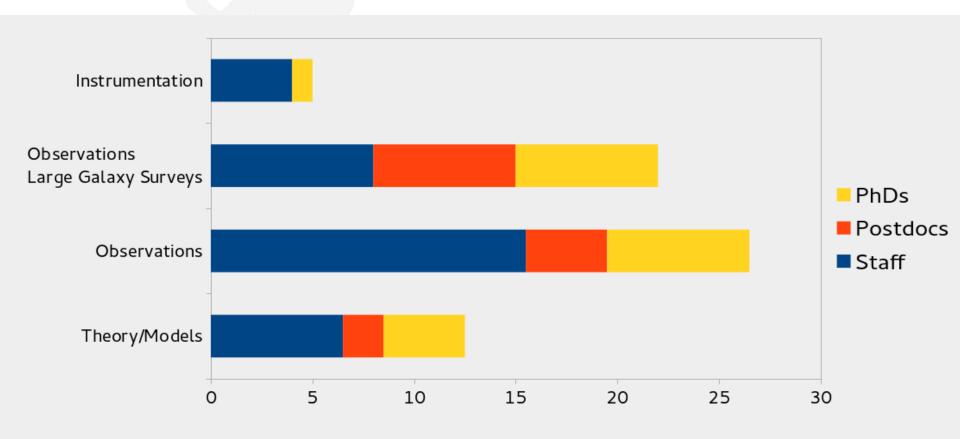








- Ressource distribution on the different themes
- And with different methodologies

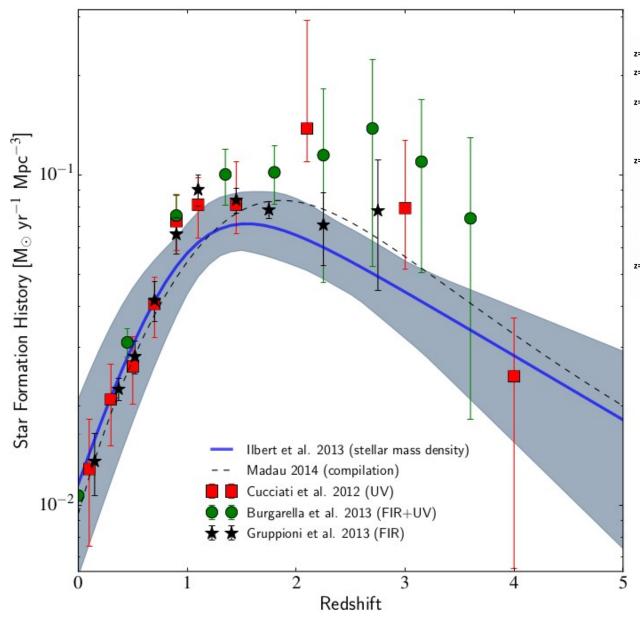


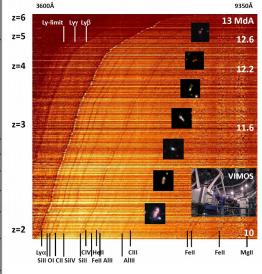




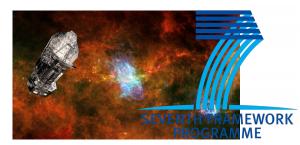
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Statistical Studies of Galaxies





VUDS ERC EARLY



Herschel surveys
2 FP7 programs in the team







Perspective for GECO.

A) The continuation of ongoing efforts along themes in the road-maps of agencies:

Cosmic First Light:

Highest redshift galaxies, first stars, population III, Gamma Ray Bursts. More generally link with Star formation.

Cosmic Mapping:

How the large scale matter distribution (gas, galaxies, DM) relates to the cosmic history of galaxies

Dark Sector:

Nature of Dark Matter, Dark Energy, and acceleration of the expansion. Cosmological model







Perspective for GECO.

B) Preparing your long-term future

Transients:

SVOM, F-GFT, MISTRAL. LSST (subject to politics) Not discussed further today

Radio/Sub-mm/mm:

Legacy of Herschel, switching to ALMA and NOEMA The future of SKA and related projects?

UV:

Large scientific/technical expertise and interest in the laboratory. Long-term road-maps.

X-ray:

Athena is selected. Interests in the team (cosmic mapping theme). Insertion in the technical activities of the laboratory?