ASTRODEEP:

MAIN RESULTS AND ACHIEVEMENTS IN PERIOD #2

This is an informal document, internal to ASTRODEEP that will not be shown to the review panel. It is only used to focus the discussion, the preparation of the reports and presentations during the review meeting.

"Mostly" complete:

These are the results that are either complete or so advanced that we can claim victory at the review meeting.

WP3: Development and testing of algorithms

- TPHOT
- A recipe for the deblending of the Herschel images
- A new method for the analysis of X-ray images
- Deconfusion in the SCUBA2 images
- Simulator
- Set of simulated GOODS-South-like simulated images
- Test of simulator on Euclid-like images (not done but doable)

WP4: Data processing and catalogue production

- Frontier Fields: Abel2744 / MACS0416
- X-ray catalog in GOODS-S

WP5: Science: The physics of early galaxy evolution

- A lot of good stuff…

WP6: Simulations of the Euclid deep survey

- Simulated images on Euclid-like images (not done but doable)

WP7: Dissemination and Outreach

- Web portal
- Sesto meeting(s)
- Inclusion of GOODS-S data at CDS

Good progress

These are the results that are not complete yet but significant advances have been made.

- WP3: Photometry with GALFIT priors using TPHOT (technically working but not yet fully tested)
- WP4: Analysis of the GOODS-South Herschel images (new image processing underway)
- WP4: Re-analysis of GOODS-South CANDELS images (new images acquired – catalog still pending, except X ray)
- WP7: Design of an optimized user-interface for CDS data

Failures / open issues

These are the results that are not complete and we need to decide how to proceed.

- WP4: which data can we realistically re-process within the end of ASTRODEEP? Sounds like full 5 CANDELS fields (Herschel/IRAC/HST/G.B./Chandra) + 4 remaining Frontier Fields is too much…
- WP3/4/WP6: WFC3-grism spectroscopy and simulations of grism data for EUCLID
- Does HST photometry need a further optimization?
- Can TPHOT be further improved?