

Distribution of tasks for short paper for PROCESS workshop at IEEE eScience conference in San Diego, September 24, 2019.

Title: Unlocking the LOFAR LTA?

1) Introduction to the astronomical part of the problem: what is LOFAR and what is the LTA?

What are we running into? A lot of data, hardly used. Hanno

2) Introduction to the computer science part: Refer to papers of Mechev et al A lot of data, hardly used.

Introduce PROCESS also. And EOSCPfL. Souley.

Conclusion of the introduction: describe status of our work. Souley/Hanno

Main body.

0) Web interface. Include a screenshot. Hanno

1) The content of the pipeline: ddf-pipeline. What does it do? How does it work? Hanno

2) CWL, Singularity to package this in a workflow. Souley, Berend.

3) Xenon-flow to run this. Souley, Berend.

4) Data service. How are we using this? Reggie or Adam?

Results

1) Essentially the contents of the demo for the review. So a description of that. Souley.

Conclusions and future work

1) We want to offer more pipelines. More than the DDF-pipeline. Hanno

2) How can users add their own pipeline. Hanno

3) Faster pipelines Hanno

4) Scalability: how many observations can I process simultaneously. There is a limit to that, because you cannot stage multiple observations from the same. Jason