

# ER-Flow Astrophysics Workflow Progress

# Before ER-flow Application Porting Workshop

name	short description	workflow system	workflow exists	middleware	VO	priority
<b>ASTRO PHYSICS</b>						
COMPCAT	capture comets from the interstellar space	WS-PGRADE	developed 60%	gLITE	Astro + VOCE VO	3
FRANEC/BASTI	evolutionary stellar models	WS-PGRADE	developed 60%	gLITE	A&A VO	2
LasMoG	modified gravity models	WS-PGRADE	developed 80%	gLITE	Astro VO	5
MESSTREAM	modelling the dynamic evolution of meteoroid stream	WS-PGRADE	developed 80%	gLITE	Astro + VOCE VO	4
PLANCK	simulation of the ESA Planck mission	WS-PGRADE	developed 40%	gLITE	Astro + Planck VO	6
VisIVO	Computational Cosmology	WS-PGRADE	developed 80%	gLITE	A&A VO	1

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- **COMPCAT**
  - Done workflow demo version (simplified version of executable that last few minutes) - run successfully.
  - Not demo version lasts 6/7 days ... - discussion if it possible to run from SHIWA portal workflows that can last so long - how to change SHIWA portal configuration for this aim?
- **FRANEC/BASTI**
  - Done workflow - run successfully - not possible to export because of SHIWA portal problem - investigation by portal developers.
- **LasMoG**
  - Done workflow - run successfully in Catania because it uses VisIVO that it is installed there.
  - People in Catania are investigating results to see if in the outputs it is everything ok.
- **MESSTREAM**
  - There is not demo version of this workflow yet, and as COMPCAT it last many days.
- **PLANCK**
  - Work in progress.
- **VisIVO**
  - Done workflow demo version - run successfully in Catania.
  - Done workflow full version - submitted but an error arises from the Catania site - investigation by Catania people – some files for some unknown reasons were corrupted and they have to be substituted.
  - Workflows have to run in Catania because VisIVO is installed there - (discussion if to install VisIVO at UoW – Gabor will discuss that with Ugo Becciani)