



# Theory I.G.

## Opening session

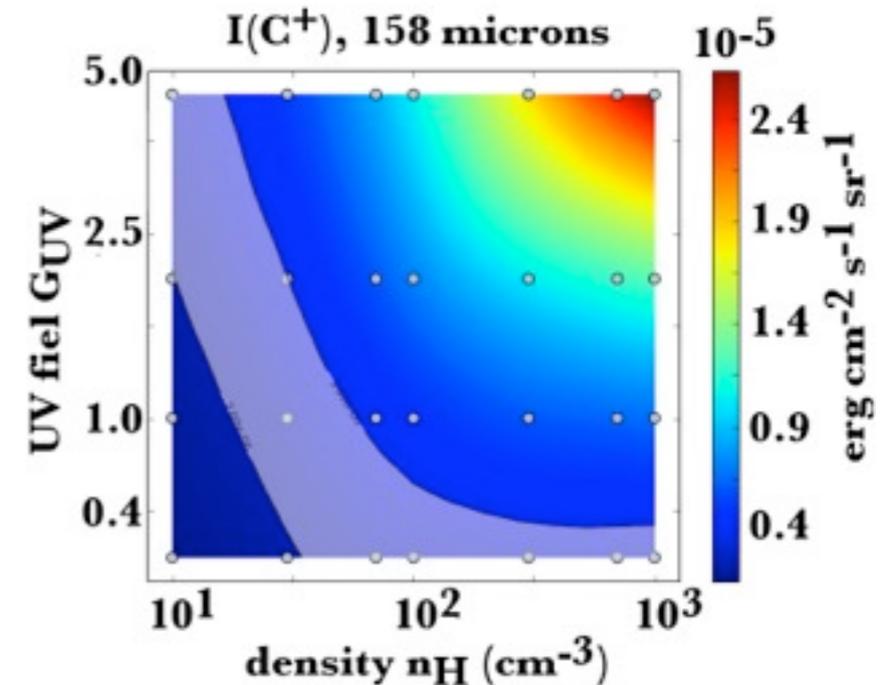
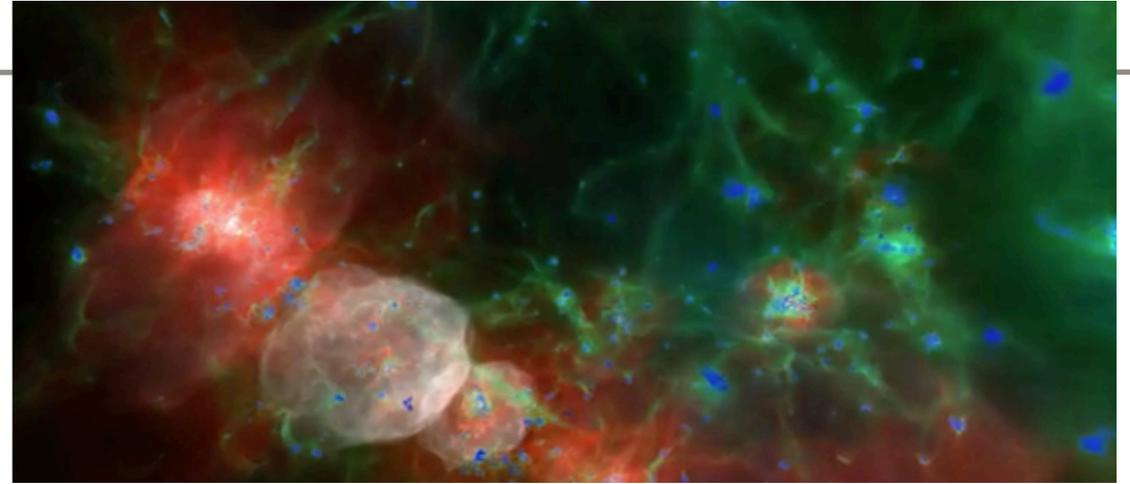
Franck Le Petit



# Simulation Data Access Layer

## SimDAL Goals :

1. Discover Theory services in the VO Registry like but fine grain
2. Discover Simulations / Datasets  
Queries on metadata values
3. Retrieve data  
Cutout in N-dimensions space



## Challenges :

- Theory services are heterogenous
- Very large number of metadata / large volume of data to retrieve
  - Big Data challenges
    - performance of diffusion systems
    - need to take into account this aspect in the protocol

# Status of SimDAL

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## Conclusions at Hawaii InterOp

- Implementation in VO-Paris
  - continue the implementation on cosmological simulations and astrochemistry models
- Other publishers ready to do implementations
- Intermediate meeting before next InterOp (Euro-VO Cosadie Technical Forum)
- Technical meeting in Paris
- Begin to write the W.D. on the parts that are reliable
- Cutout implementation (?)

## Conclusions of meetings and teleconferences

- General agreement on the whole SimDAL proposition
- Agreement on parts 1 and 3 (service discovery & data retrieval)
- Still discussions on specific points of part 2 (data discovery)

# Theory sessions at this InterOp

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Two Theory sessions on thursday morning

## Session I : Theoretical services

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- Asteroseismology - Carlo Rodrigo (Madrid)
- Galaxies & Galaxy Clusters - Dunja Fabian (Trieste)
- Pollux & SPECFLOW - Michelle Sanguillon (Montpellier)
- Interstellar Gas Models - Franck Le Petit (Paris)

## Session II : SimDAL

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- SimDAL - David Languignon (Paris)
- Discussions