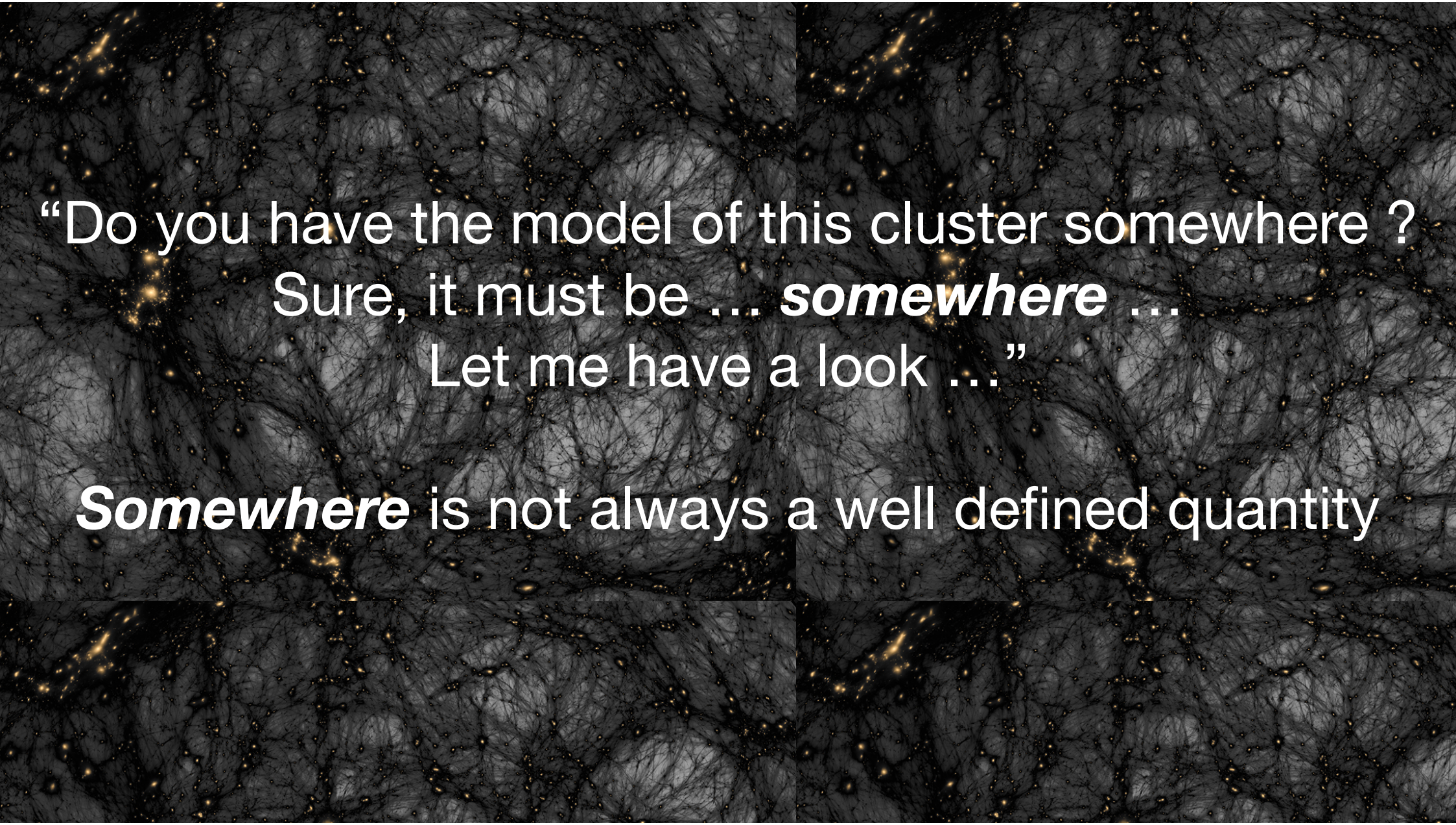
The Strong Lensing Cluster Atlas Data base

@LAM

(Laboratoire d'Astrophysique de Marseille)

Eric Jullo, Guillaume Mahler,
Johan Richard & Marceau Limousin
+ **Francois Agneray** (data base engineer)

https://data.lam.fr/sl-cluster-atlas/home


“Do you have the model of this cluster somewhere ?
Sure, it must be … ***somewhere*** …
Let me have a look …”
Somewhere is not always a well defined quantity

1 - Store the Models

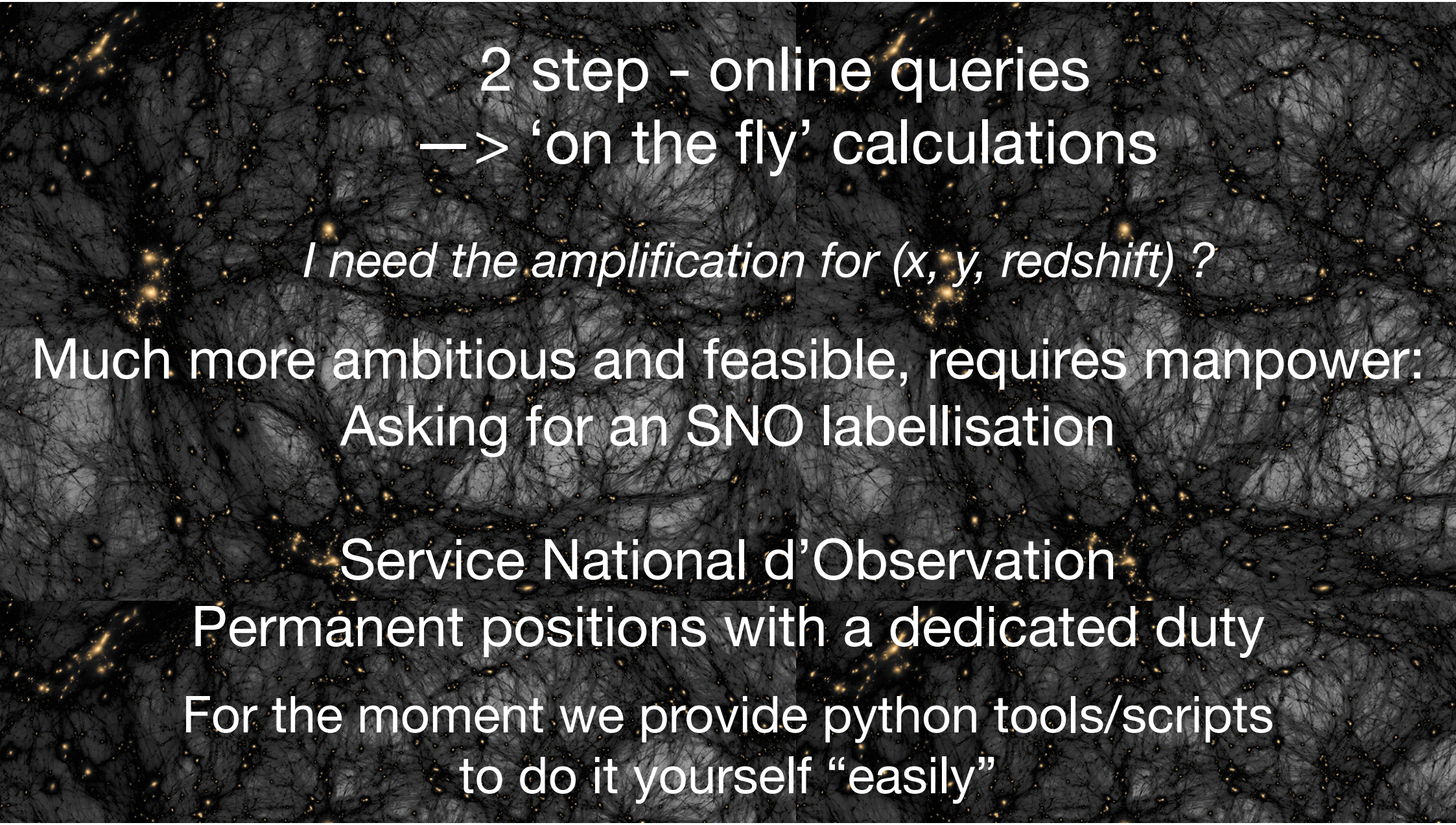
Easy access for :

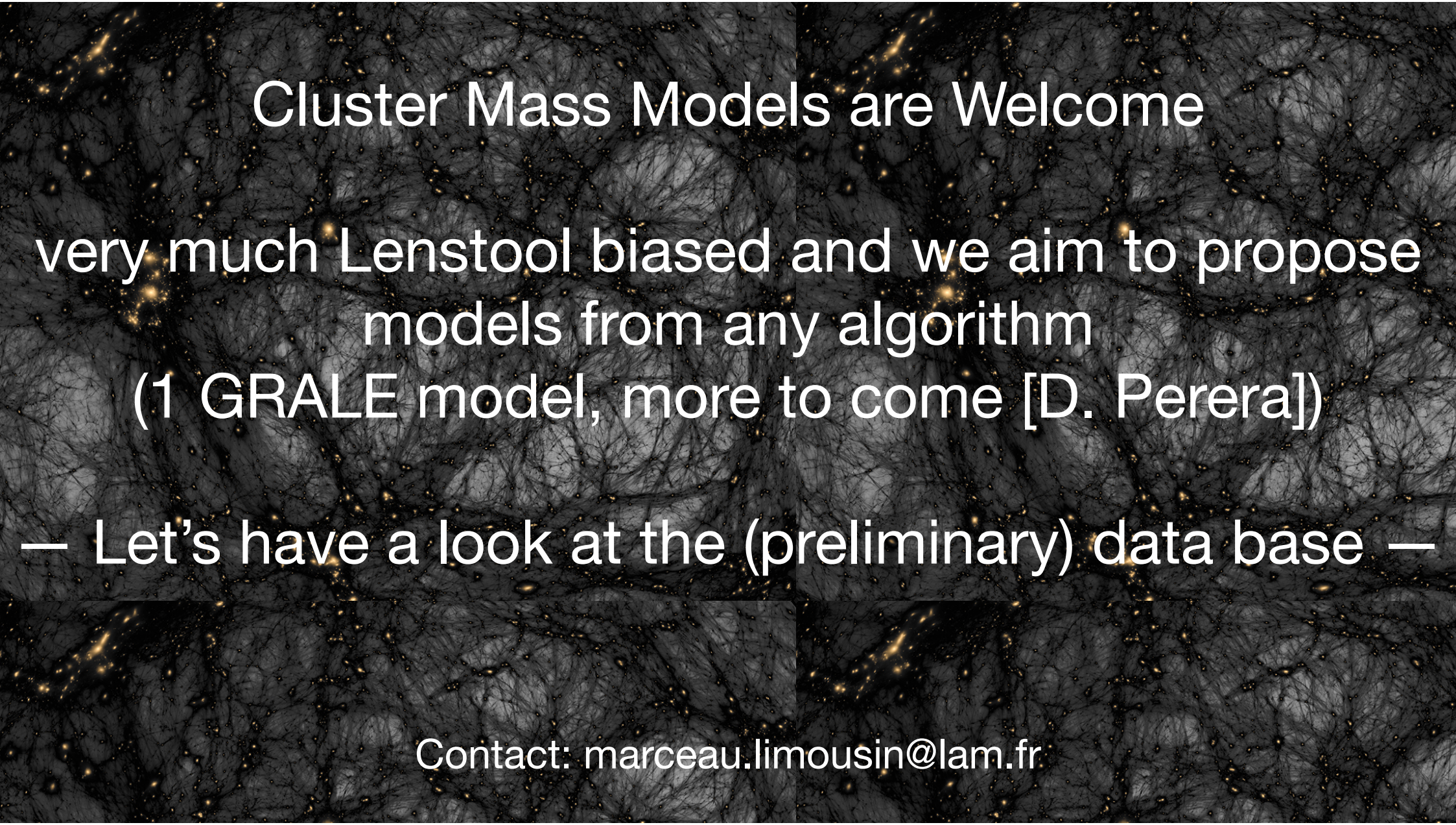
* input & output modeling files
* A few relevant informations on the cluster
* (*e.g.* mass, surface amplified > 10 …)

* Associated products (e.g. mass, shear **maps** …)


Not a New Idea:
Personal ftp services
The HFF experience (6 clusters, many models)


Not a New Idea:
Informal/personal ftp services
The HFF experience (6 models)
A dedicated Service benefiting from
a robust infrastructure@LAM
ANIS (AstroNomical Information System)
@CeSAM (Centre de données Astrop. de Marseille)
A few decades of experience


2 step - online queries
—> ‘on the fly’ calculations
I need the amplification for (x, y, redshift) ?
Much more ambitious and feasible, requires manpower:
Asking for an SNO labellisation
Service National d’Observation
Permanent positions with a dedicated duty
For the moment we provide python tools/scripts
to do it yourself “easily”


Cluster Mass Models are Welcome
very much Lenstool biased and we aim to propose models from any algorithm
(1 GRALE model, more to come [D. Perera])
— Let’s have a look at the (preliminary) data base —
Contact: marceau.limousin@lam.fr