



Monsters under the bed :

Influence of dark remnants on globular cluster evolution in the galactic context

Alessandrini, Askar, Dorval, Fensch, Fernandez, Guillard, Nasello



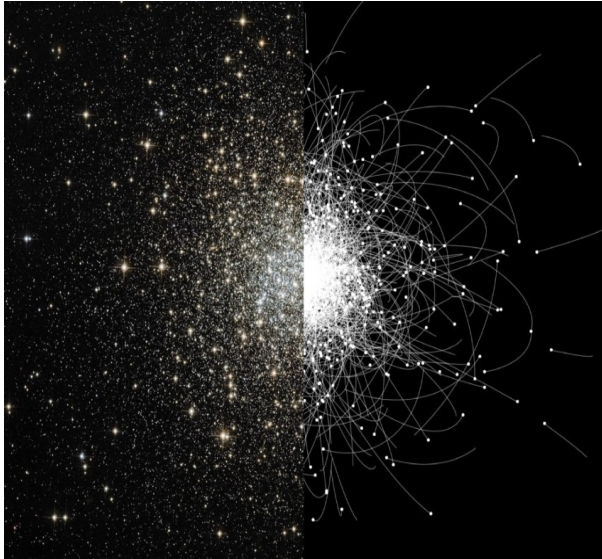
Neutron stars

Black holes

millisecond pulsars

black holes were long thought to be ejected from clusters....
until now ! Compact objects population unknown !

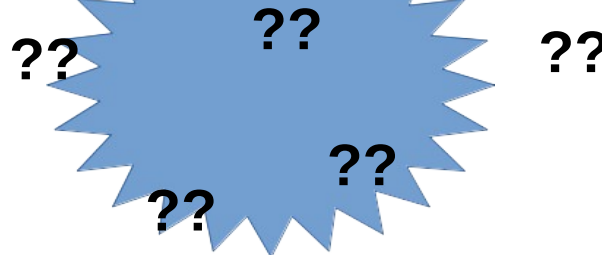
Internal dynamics



Galactic environment

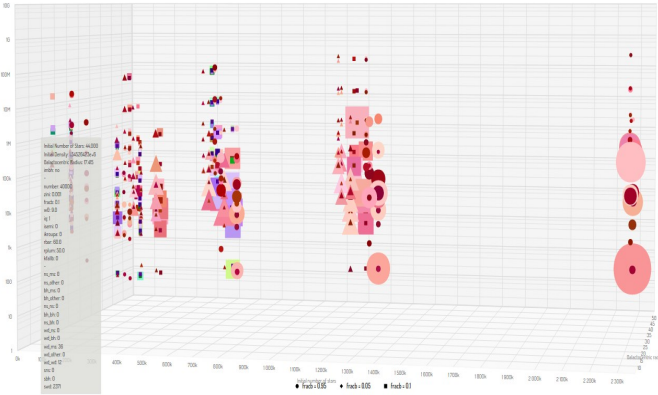


Dynamics of GCs



Methodology

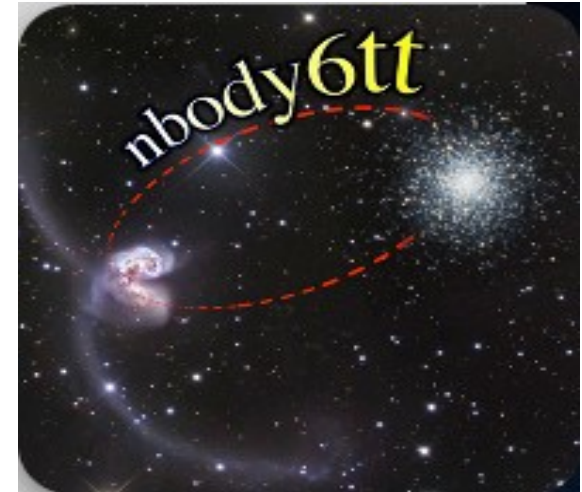
Internal dynamics



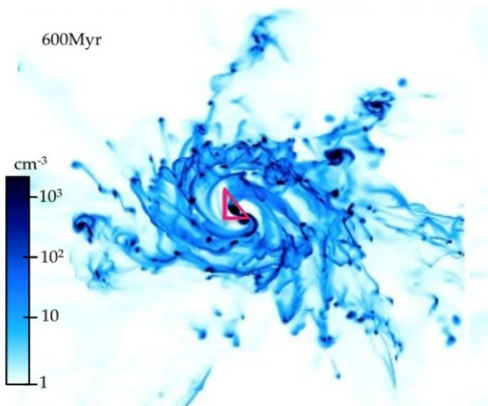
ICs (IMF, binaries,
mass profile, etc)

Code : MOCCA

Internal dynamics
+
Galactic environment



Galactic environment (z=2-3)



Feedback
(RT, Hydro-recipe)

Gravitational potential
+
Tidal Tensor

Code : Ramses

Formation History
Remnants prop.
(distribution)
Segregation
Ejection
Evaporation

Schedule

