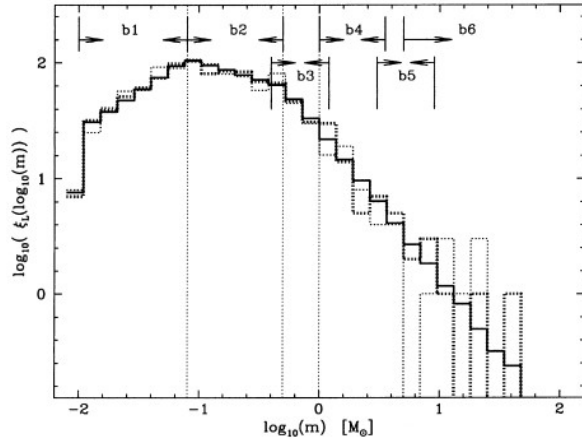


Modeling and observing Young Massive Clusters with SimCADO : a simulation package for MICADO at the ELT

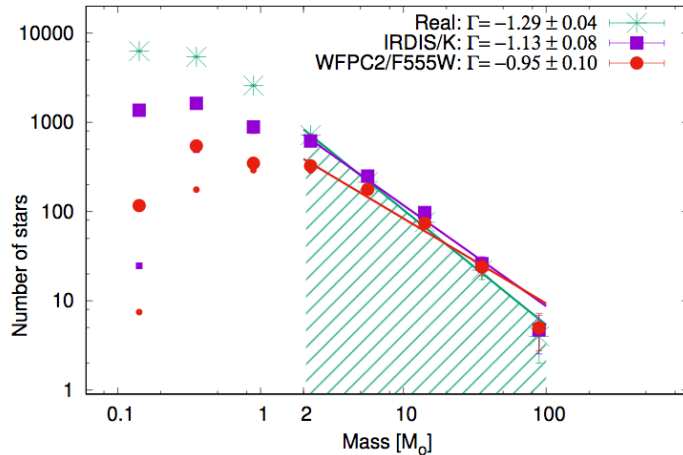


Kroupa+2001



Khorrami+2019

$M_{\text{tot}}=10^4 M_{\odot}$, BF=0% , $R_h=0.5$ pc, Age=2 Myr



Diffraction limit at $1\mu\text{m}$:

ELT
40au
260au

VLT
200au
1290au

@8kpc, Arches, galactic center
@50kpc, R136 in LMC

- Crowding problem
- Resolving binaries



MICADO-MAORY is required

R136 model as seen
with SimCADO - MCAO

