

The GravGroup at GSSI

Science Fair
GSSI

17/02/2025



Faculty



Post-docs



≥4th year PhD



3rd year PhD



2nd year PhD



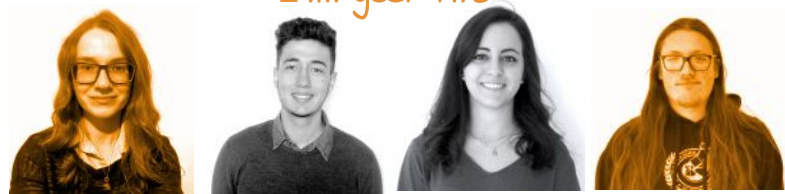
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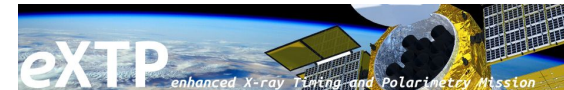
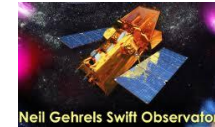
2nd year PhD



Collaborating is important

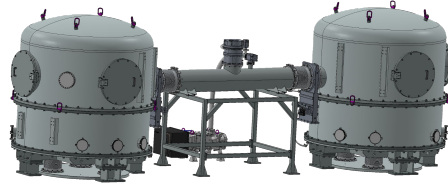
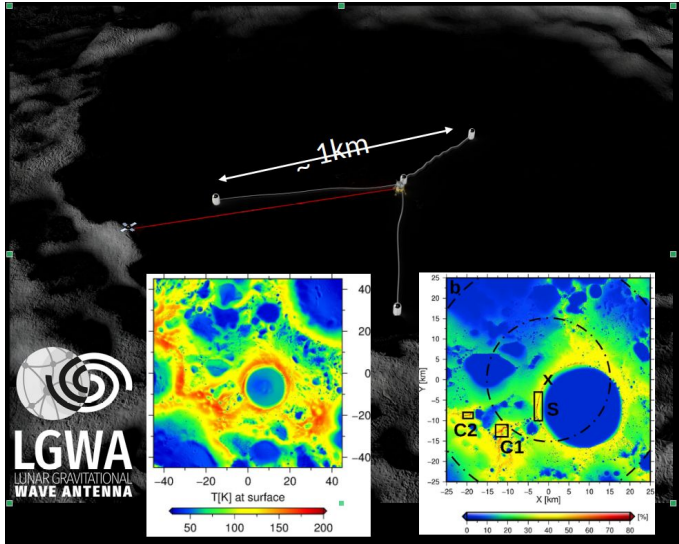


TEONGRAV Teoria delle ONde GRAVitazionali
Gravitational Wave Emission from Astrophysical Sources



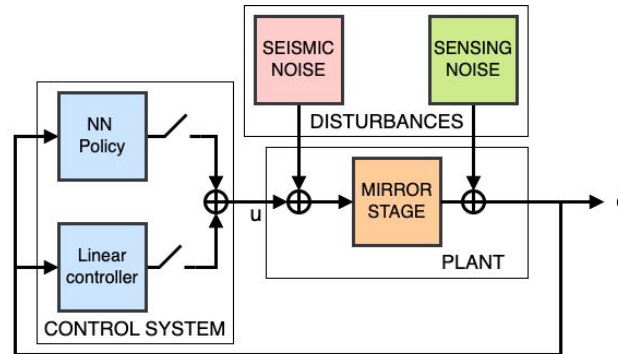
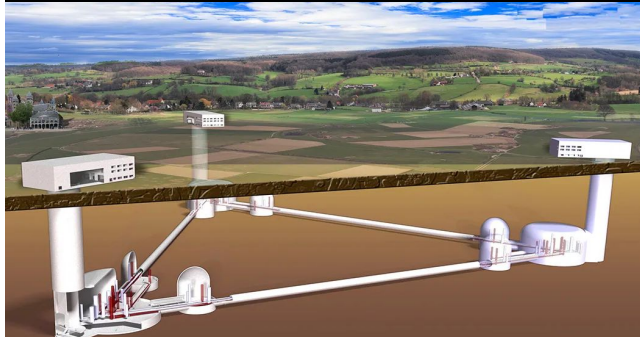
... and many, many more

GWs Experiments (see Tomislav



GEMINI experiment

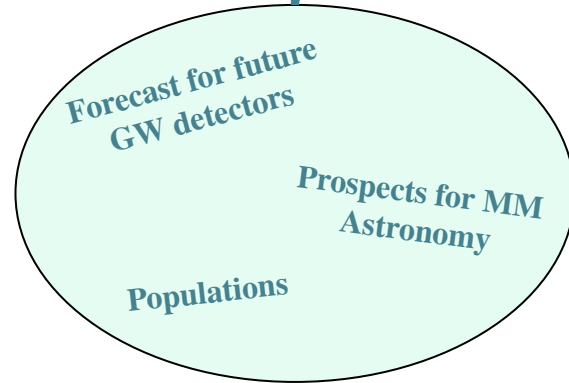
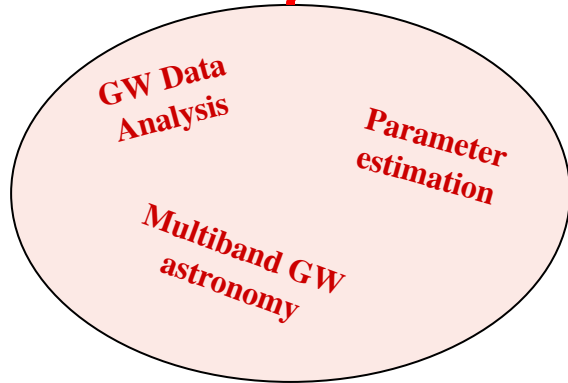
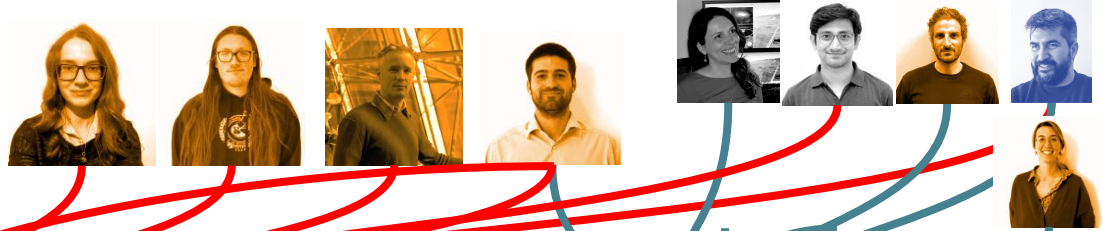
Development and testing of advanced seismic isolation and control technologies for future Gravitational Wave observatories (including ET and LGWA)



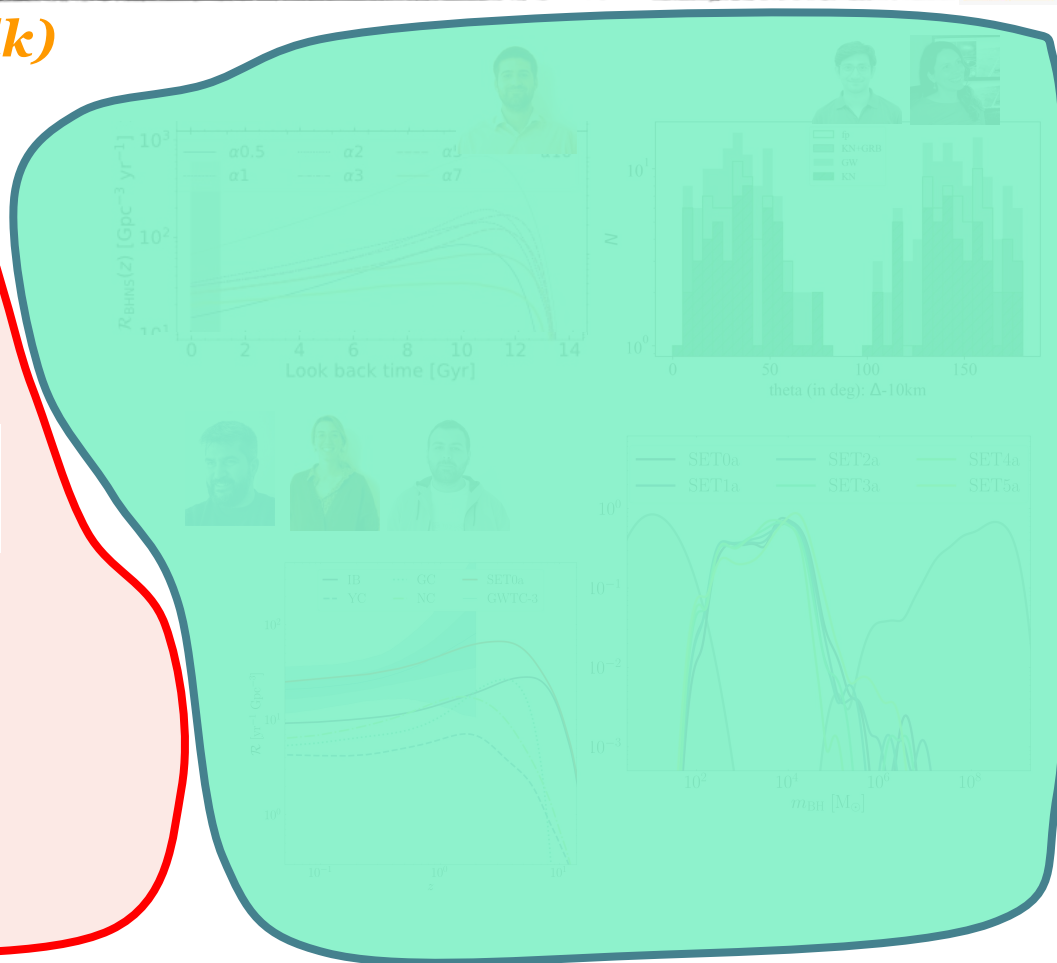
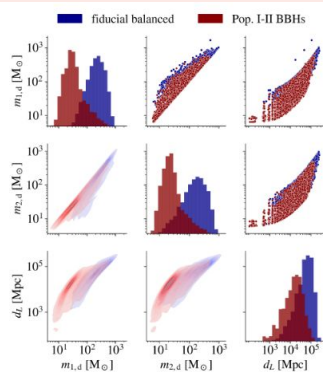
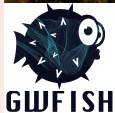
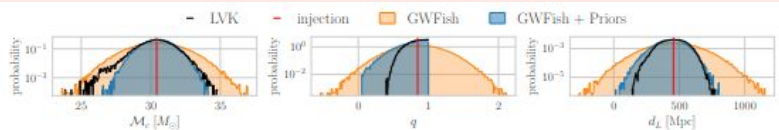
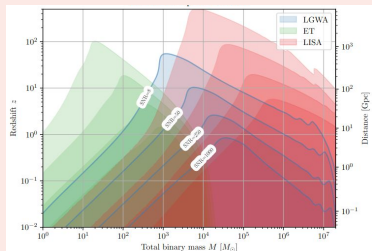
Shimmer project

Reinforcement Learning / Neural Networks For Detector Controls

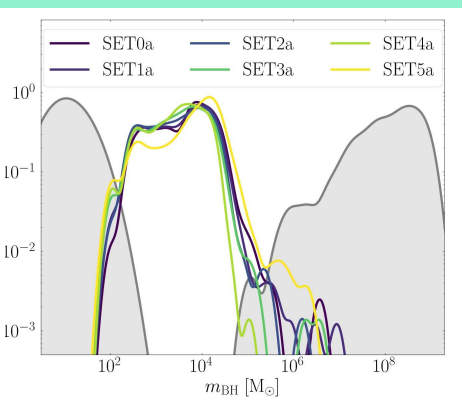
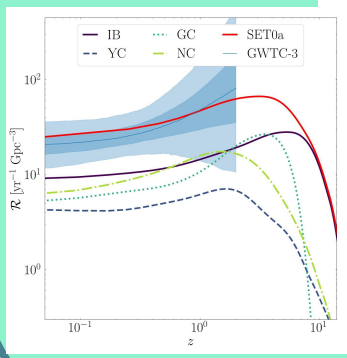
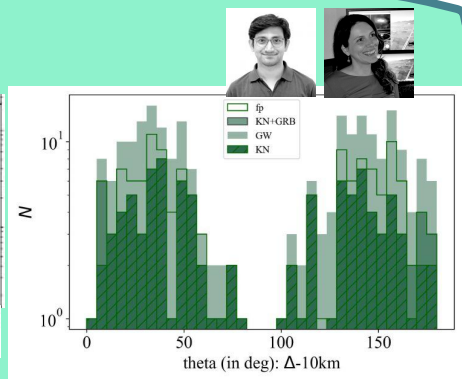
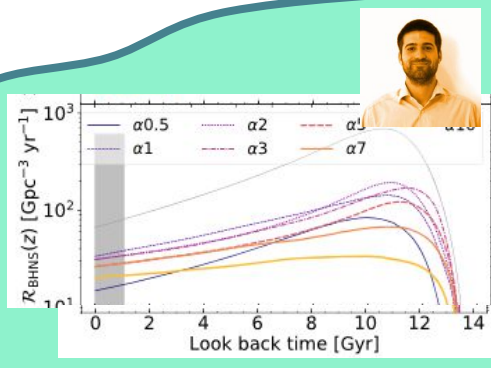
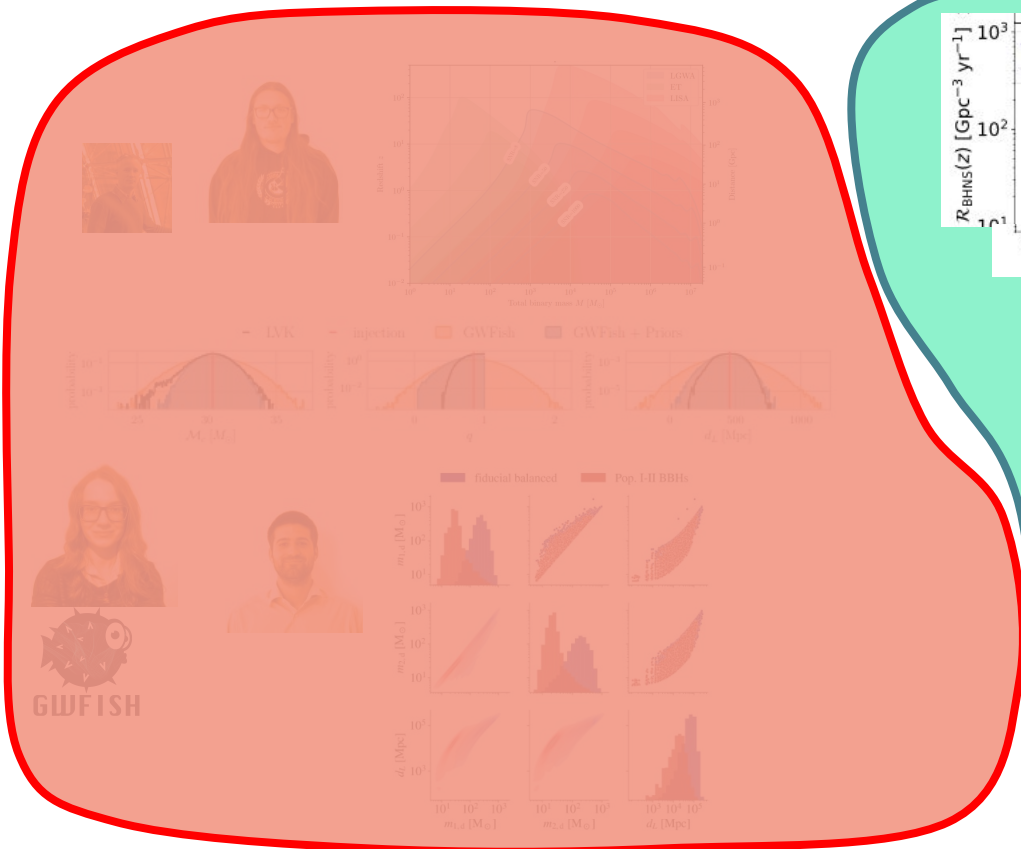
GWs Analysis
(See Jacopo's talk)



GWs Analysis (See Jacopo's talk)

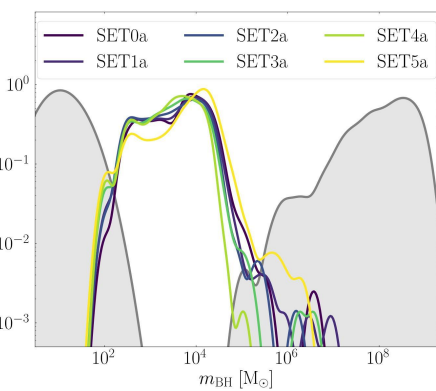
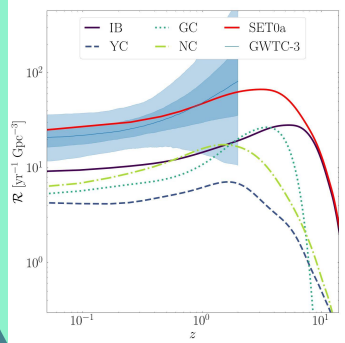
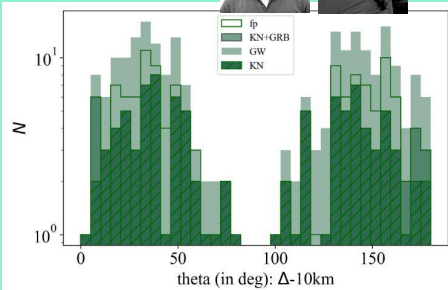
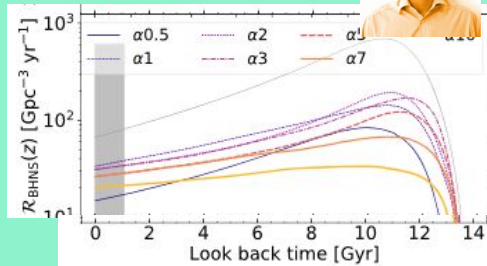
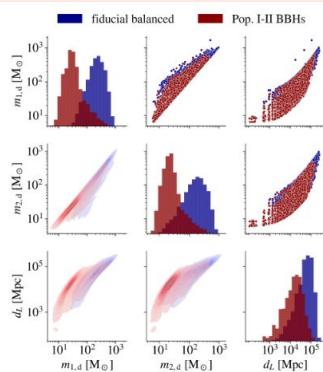
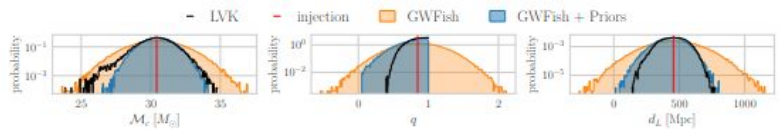
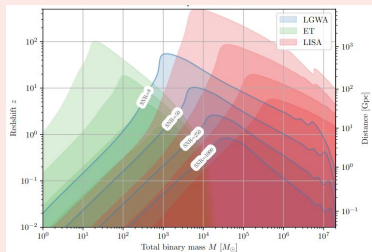


GWs Analysis (See Jacopo's talk)

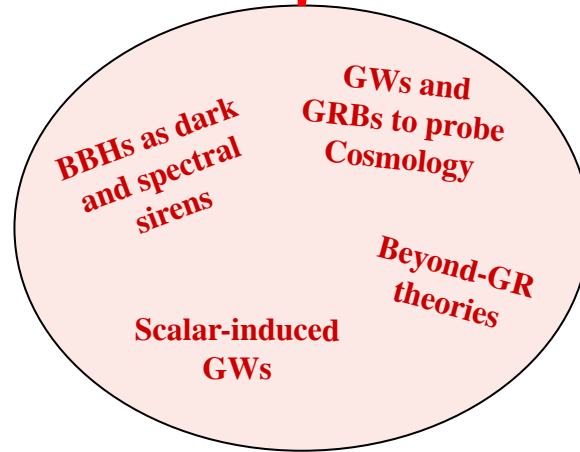
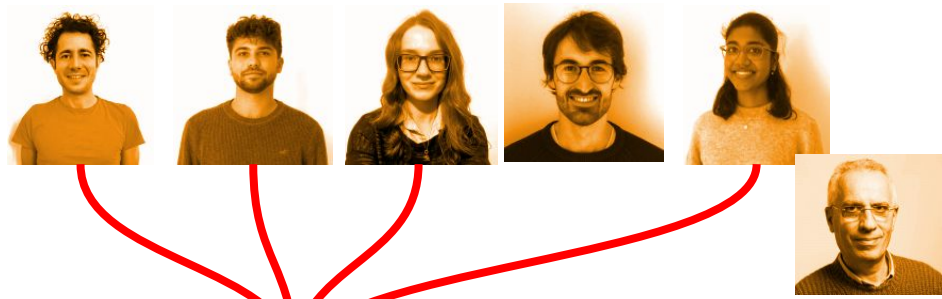


GW FISH

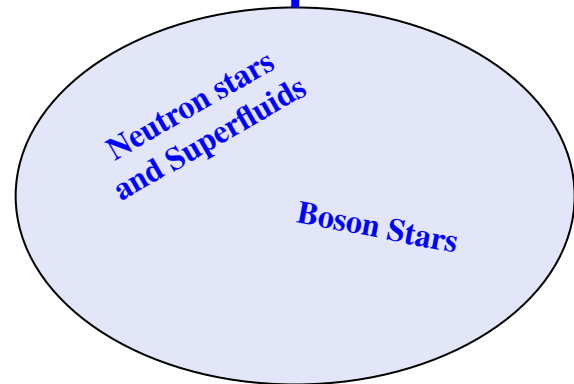
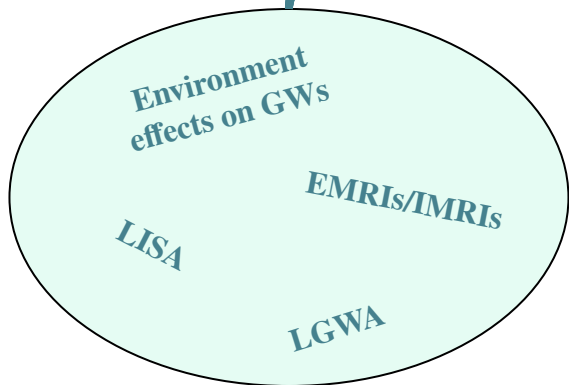
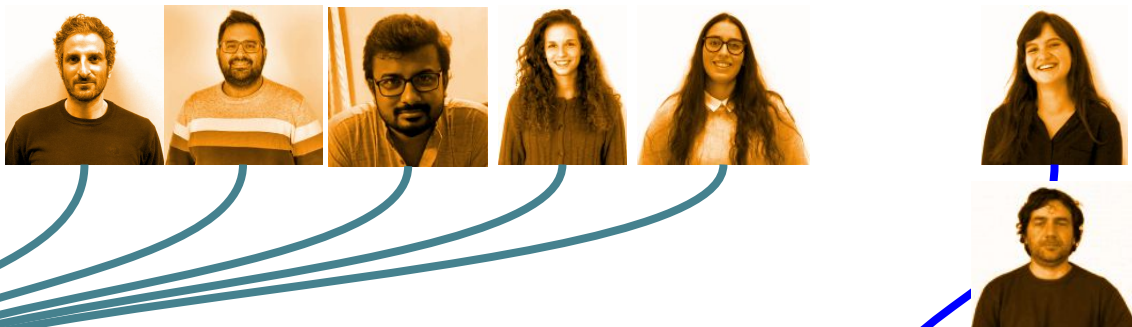
GWs Analysis (See Jacopo's talk)



GW Cosmology
(see *Andrea and Matteo's talk*)



GW Theory
(see Marcelo and Sayak's talk)

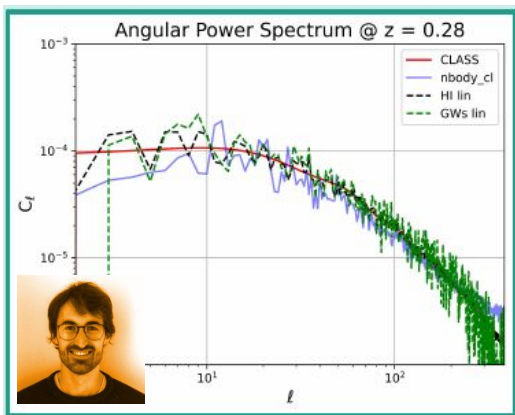


GW Cosmology

(see Andrea and Matteo's talk)

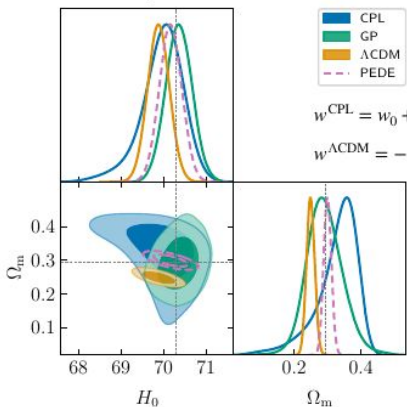


Using GW sources as tracers of the LSS

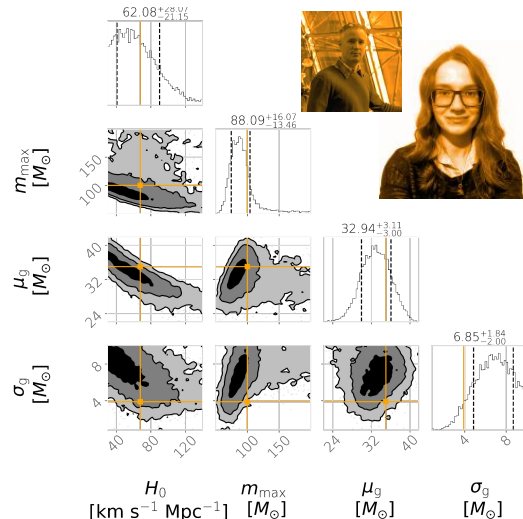


Use GWs and GRBs to probe Cosmology

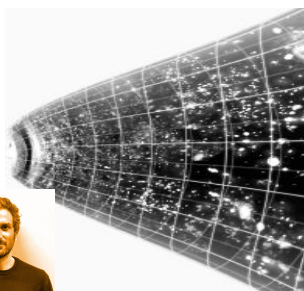
PEDE Universe | Pantheon+ & ET Δ + CE



BBHs as dark and spectral sirens



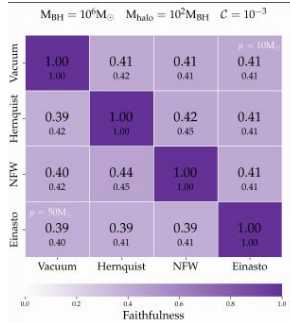
Scalar-induced GWs



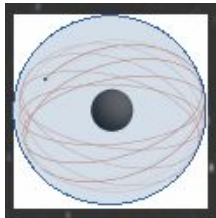
GW Theory (see Marcelo and Sayak's talk)



Environmental effects on GW signals in preparation for LISA

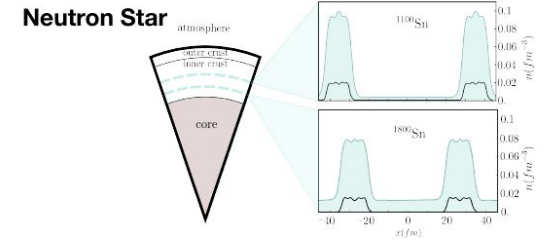


Ringing Black Holes: the soundtrack of spacetime

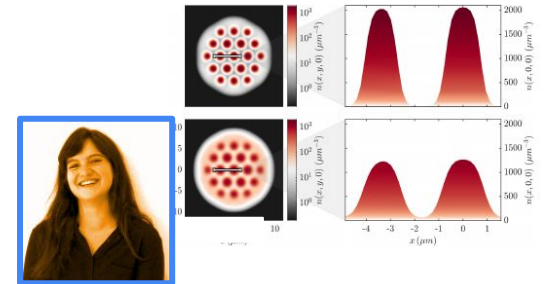


Glitches in supersolids

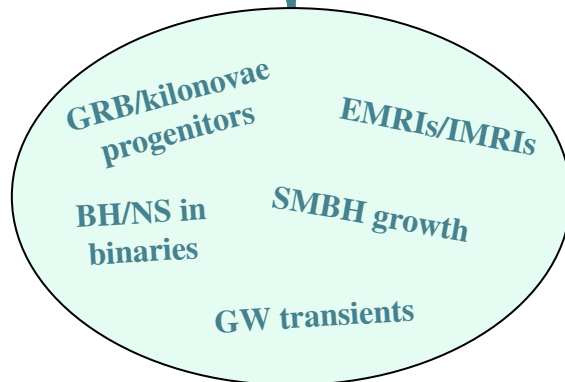
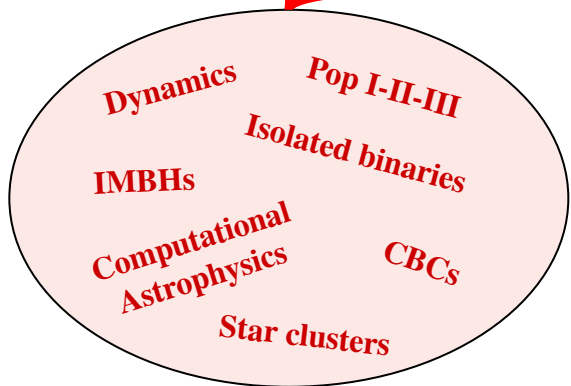
Ultracold atom systems emulate Neutron Stars



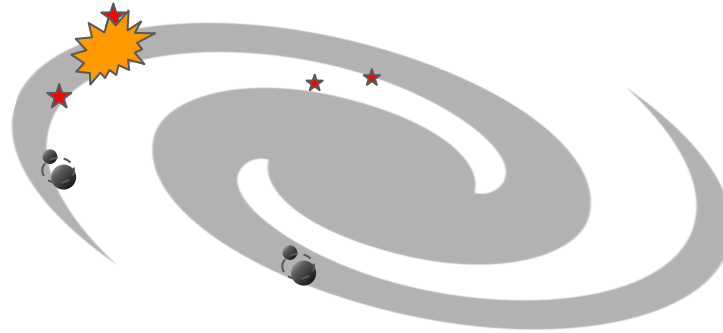
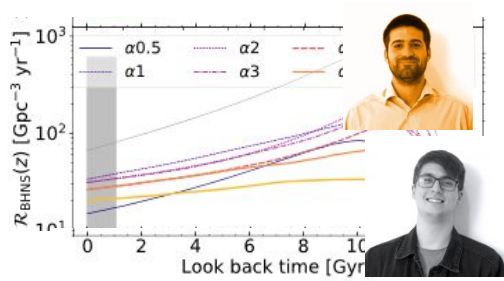
Atomic Supersolid



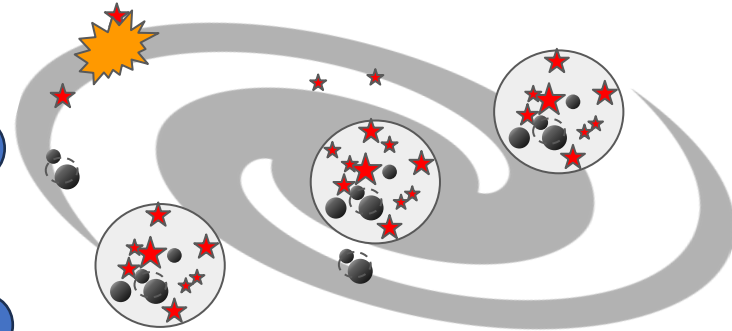
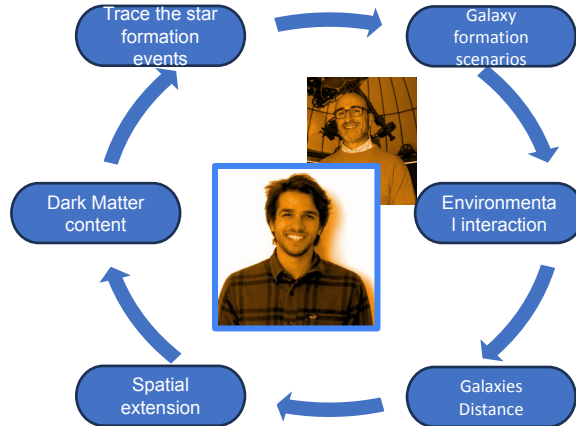
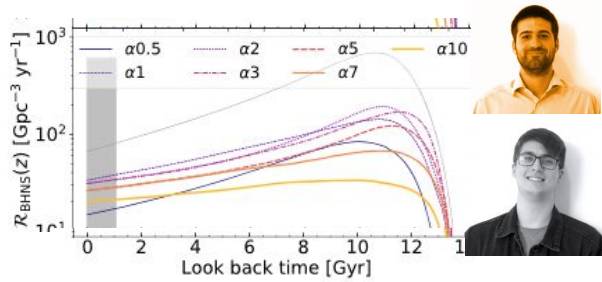
Stellar Astrophysics
(see Benedetta, Lavinia
and Cristiano's talk)



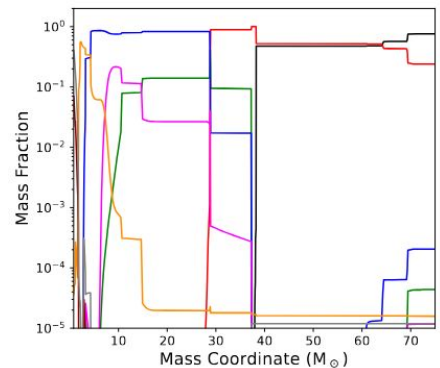
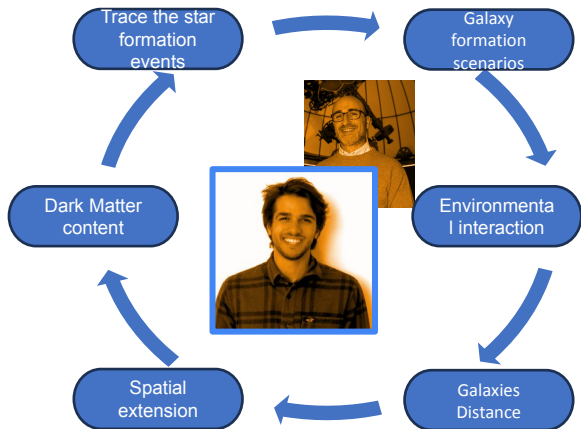
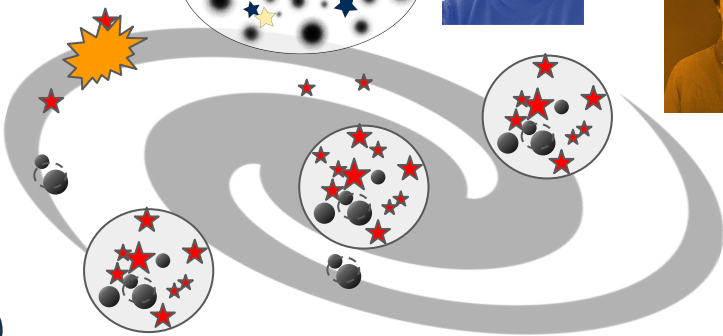
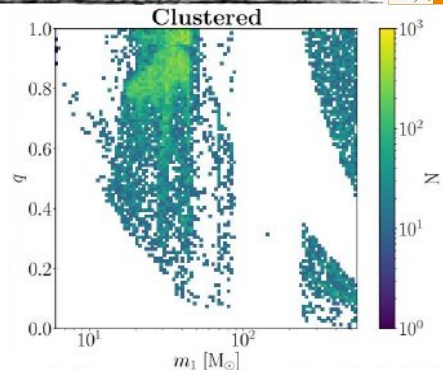
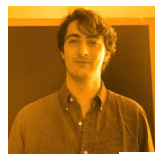
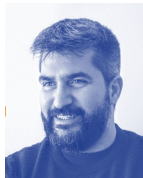
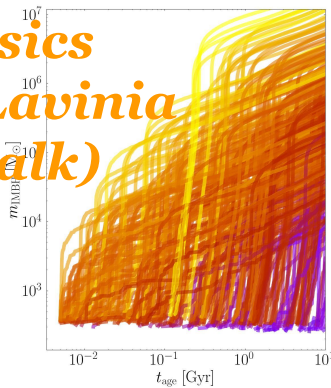
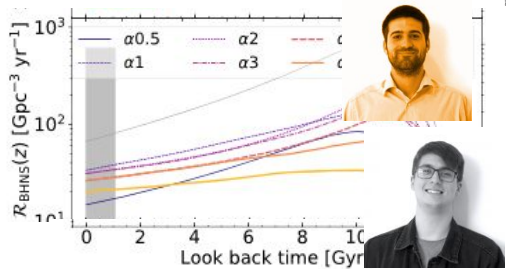
Stellar Astrophysics (see Benedetta, Lavinia and Cristiano's talk)



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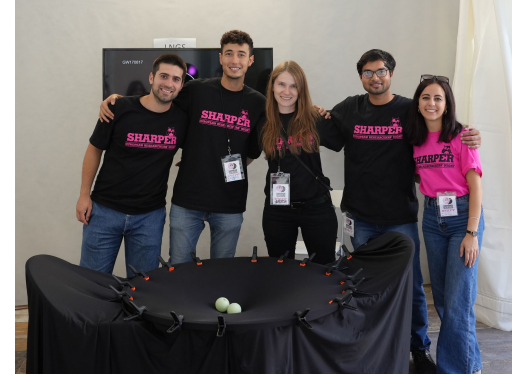
Collateral Activities



outreach

Public lectures

Meet students and kids



Join us!
our science is funny,
our food is great!

