

Institute of  
Space Sciences

EXCELENCIA  
MARÍA  
DE MAEZTU



GOBIERNO  
DE ESPAÑA

MINISTERIO  
DE CIENCIA, INNOVACIÓN  
Y UNIVERSIDADES



CSIC  
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

IEEC<sup>R</sup>

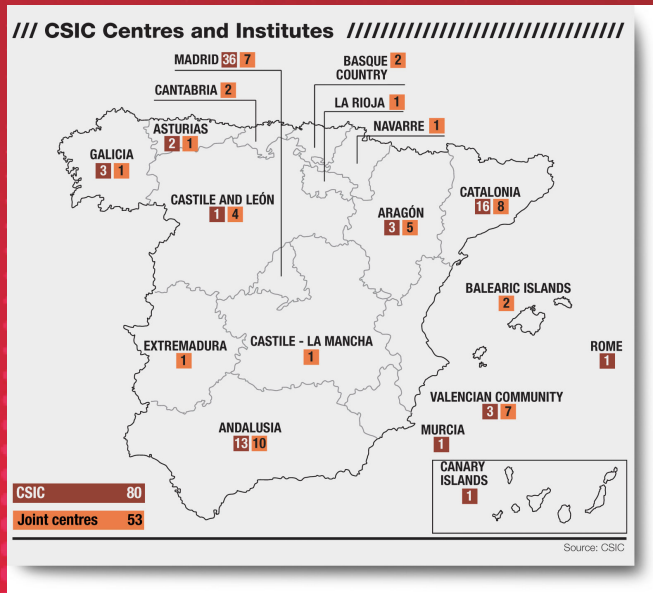
# Institute of Space Sciences (ICE)

A. Serenelli



# An institute of Spanish Research Council (CSIC)

- ICE was created by CSIC in 2008 – moved to current building in 2015
- We are a mid-sized CSIC Institute – around 150 persons
- CSIC is the largest institution dedicated to research in Spain and the 3rd in Europe with more than 120 institutes and research centres



- At regional level, we are affiliated to Institut d'Estudis Espacials de Catalunya (IEEC)



# Research structured around three lines

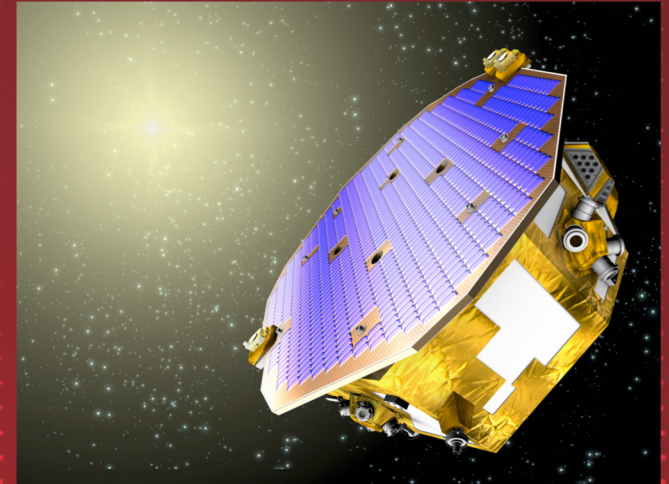
- **From star formation to life: star & planet formation and evolution, characterization of exoplanets & systems, minor bodies, Earth Observation**
- **The Extreme Universe: the transient sky, Novae and SNe, pulsars, magnetars, PWNe and other high-energy phenomena**
- **The Fabric of the Universe: cosmology, large-scale structure, extragalactic astronomy, gravity, gravitational waves**

**In all areas, we combine theory & simulations, observations, and experimental developments**

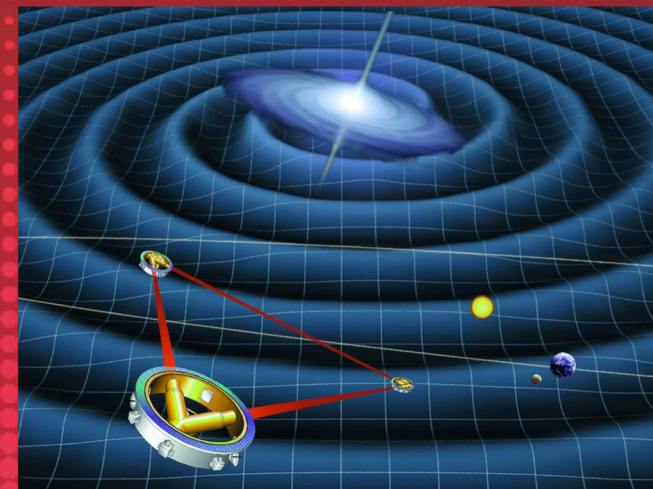
# Gravitational waves at ICE

A 20 year old endeavor, pioneered by Alberto Lobo when he joined the Institute

ICE led the Spanish contribution to LISA Pathfinder through hardware, software and instrumental developments



Naturally, but with a lot of effort, evolved into participation and leadership in Spanish contributions to LISA



# Strong institutional support

- Strategic goal: development of technology for OFCs with nano-Kelvin temperature resolution in sub mHz regime

Maria de Maeztu Seal of Excellence  
Period: 2022-2025



EXCELENCIA  
MARÍA  
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Fund from the Recovery, Transformation and Resilience Plan (EU, Spain, Catalunya)

Finançat per



Unió Europea  
Fons Europeu  
Next Generation



GOBIERNO  
DE ESPAÑA



Plan de Recuperación,  
Transformación  
y Resiliencia



Next Generation  
Catalunya



Generalitat  
de Catalunya

- Strong support as well by IEEC through NewSpace Strategy, with ILIADA (25/26)

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- Carlos Sopena, Miquel Nofrarias, Víctor Martín
- Sascha Husa (IC 2023, from Univ. Balears) and David Roma (Tecnólogo 2024, inc. 2025)

**Have a great meeting, and enjoy your stay in  
Bellaterra/Barcelona!**

