



Listening to the millihertz Universe with the Laser Interferometer Space Antenna (LISA)

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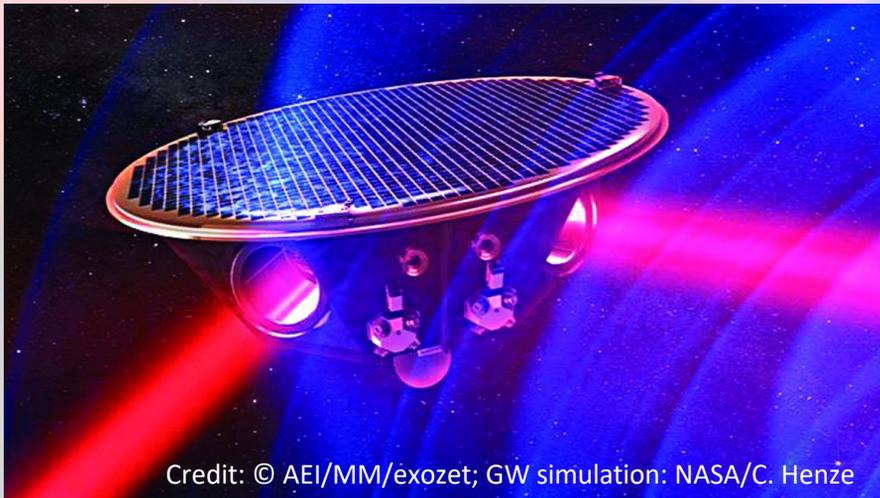
About a decade after the first detection of gravitational waves with ground-based observatories in 2015, the European Space Agency has recently adopted a bold mission to realize a space-based gravitational-wave mission. The expanse of space provides a profoundly quiet environment and room for the kind of gargantuan instrument needed to listen to the universe in a new mHz band with gravitational wavelengths about 10000 times larger than those observed directly from the ground. The rumbling of the universe in this band will provide an unprecedented new perspective on the universe, revealing new populations of sources, more numerous, more immense and more distant than those measured from the ground.

Séminaire SFP

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**Salle de séminaires
FeRMI
Bât. 3R4
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This talk will overview what LISA is expected to observe and discuss some of the efforts now underway to prepare for scientific analysis of LISA's data following launch planned for 2035.