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The LISA mission: status and perspectives for PNHE

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The Laser Interferometer Space Antenna (LISA) is the large mission of ESA for observing gravitational waves (GW) from space. It has a huge science case and will observe a large number of GW sources making an important contribution to the multi-messenger astronomy. LISA is finishing its phase A and will be launched mid-2030s. In this talk, we will briefly describe the mission, give its current status (technology, planning, data analysis preparation, etc) and focused on GW sources of interest for PNHE and multi-messenger astronomy with LISA.

Orateur: PETITTEAU, Antoine (APC - Université Paris-Diderot)

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