

Alexis Mehlman - Iodine based reference laser for ground tests of LISA payload

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We report on the development of a transportable iodine frequency stabilized laser setup, based on compact and fibered Telecom components with a high technological readiness level (TRL). This laser system is an ultra-stable frequency reference for the assembly, integration validation and tests (AIVT) of the payload of LISA mission (Laser Interferometer Space Antenna) as part of the SYRTE laboratory contribution to the French activities carried out by a consortium of several partners lead by the French Space Agency (CNES). The compact design of the whole setup will make it easily transportable and can be readily used on different sites.

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