

ILIADA: In-Orbit LISA Diagnostics Demonstrator

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ILIADA is an in-orbit demonstrator (IOD) planned to fly in 2026 as a part of an Earth Observation Cubesat in the framework of the NewSpace Strategy from the Generalitat of Catalonia. The primary goal of ILIADA is to raise the TRL of new technologies and sensor elements of the future LISA Diagnostics Subsystem. It will include temperature sensors, magnetometers (AMR and MEMs based) and a radiation monitor. The secondary objective of ILIADA is to detect the crossing of the spacecraft through the Birkeland currents—a set of electrical currents that flow along geomagnetic field lines connecting the Earth's magnetosphere to the Earth's high latitude ionosphere—by exploiting the use of high precision sensors on-board. In this contribution we will present the design and current status of the IOD.

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