

Subject 1

The LISA expected strain sensitivity is characterised by different limiting factors depending on the frequency range in the measurement bandwidth. Present and discuss the main contributions to the resulting sensitivity curve.

Subject 2

A key technology for the LISA spacecraft platform is provided by the Drag-free attitude control system (DFACS). Present and discuss the DFACS logic and its role in the achievement of the expected measurement performance.

Subject 3

The Gravitational Reference Sensor (GRS) flown on board of LISA Pathfinder provided a relevant test for its implementation in the LISA mission. Present and discuss the role of the GRS in the overall LISA architecture and the main results achieved through its in-flight testing.