

Phase Metrology System for LISA

Juan José Esteban Delgado, Thomas S. Schwarze, Germán Fernández Barranco,
Miguel Dovale Álvarez, Fahri Öztürk, Oliver Gerberding, Christoph Vorndamme
Daniel Penkert, Pablo Martínez Cano, Jens Reiche, Gerhard Heinzl

Max Planck Institute for Gravitational Physics (Albert Einstein Institute)

Callinstrasse 38, 30167 Hannover, Germany

Leibniz Universität Hannover, Institut für Gravitationsphysik

Callinstrasse 38, 30167 Hannover, Germany

Abstract

The LISA mission has been studied in great detail in Europe and the US for more than two decades in order to observe the Gravitational Universe at low frequencies. Following the selection of the LISA proposal by ESA in June 2017, and the successful in-flight technology demonstration of LISA Pathfinder, the LISA mission is currently in the first planning stages. This contribution presents an overview of the design for the Phase Metrology System (PMS), with special focus on instrument and performance testing.

References

- [1] K. Danzmann *et al.*, Response to ESA L3 mission call (2017)