

Gaia data simulations

E. Masana¹, X. Luri¹, F. Julbe¹, R. Borrachero¹, and E. Antiche¹

¹ Departament d'Astronomia i Meteorologia, IEEC- ICC-UB, C/ Martí i Franquès, 1; Barcelona, Spain

Abstract

The ESA Gaia astrometric mission was launched on December 19th 2013. It has been designed to create an extraordinarily precise 3D map of about a billion stars throughout our Galaxy and beyond. During the development phase of the mission, the simulation of the telemetry and astronomical sources to be observed by Gaia was a crucial task. The simulations allowed a deep analysis of some aspects of the instruments behavior and the preparation of the data reduction software.

Acknowledgments

This work was supported by the MINECO (Spanish Ministry of Economy) - FEDER through grant AYA2012-39551-C02-01 and ESP2013-48318-C2-1-R.