Highlights of Spanish Astrophysics VIII, Proceedings of the XI Scientific Meeting of the Spanish Astronomical Society held on September 8–12, 2014, in Teruel, Spain. A. J. Cenarro, F. Figueras, C. Hernández-Monteagudo, J. Trujillo Bueno, and L. Valdivielso (eds.)

Gaia data simulations

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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.