

## The Gaia photometric calibration and results on Galactic runaways.

Jesús Maíz Apellániz<sup>1</sup>, Michelangelo Pantaleoni González<sup>1,2</sup>, Daniel J. Lennon<sup>3</sup>, Rodolfo H. Barbá<sup>4</sup>, and Michael Weiler<sup>5</sup>

<sup>1</sup> Centro de Astrobiología, CSIC-INTA, Spain

<sup>2</sup> Universidad Complutense de Madrid, Spain

<sup>3</sup> European Space Agency, ESAC, Spain

<sup>4</sup> Universidad de La Serena, Chile

<sup>5</sup> Universitat de Barcelona, Spain

### Abstract

We present results on two different Gaia-related topics. First, we describe our efforts to calibrate the three Gaia photometric passbands  $G$ ,  $G_{BP}$ , and  $G_{RP}$ . We have built a new spectrophotometric HST/STIS library and used it to derive new sensitivity curves and zero points for the three bands, including recipes on how to correct some cases. Second, we present our results on Galactic runaway stars using Gaia DR1 proper motions: we detect 76 runaway stars, 17 (possibly 19) of them not previously identified as such. (See poster).