

IEEC

The Spanish Network for Gaia Science Exploitation

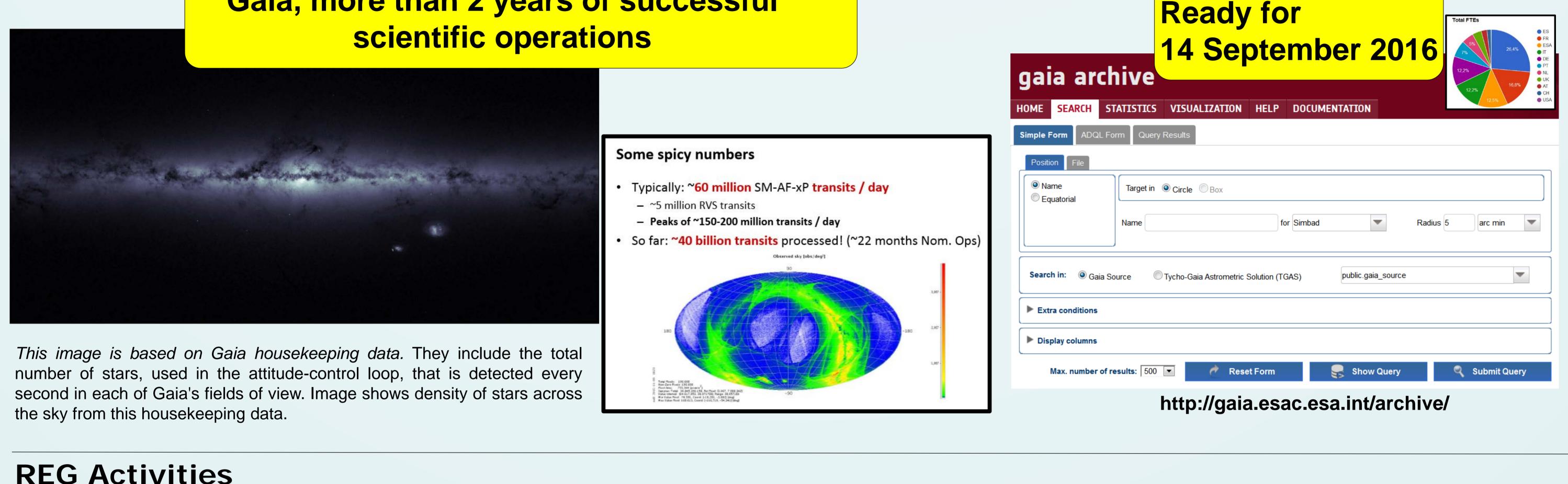
F. Figueras y C. Jordi, X. Luri and J. Torra on behalf of the REG Executive Committee and Gaia-UB team

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The "Red Española de Explotación Científica de Gaia" (REG) continues to intensify its activities facing the imminent publication of the first and second Gaia Data Releases (14 September, 2016 and Q4-2017, respectively). The network, supported by the MINECO under contract "Acciones de dinamización, Redes de Excelencia (2016-2017)", has as major priority the task to coordinate and support the collective activities developed by its more than 150 members.

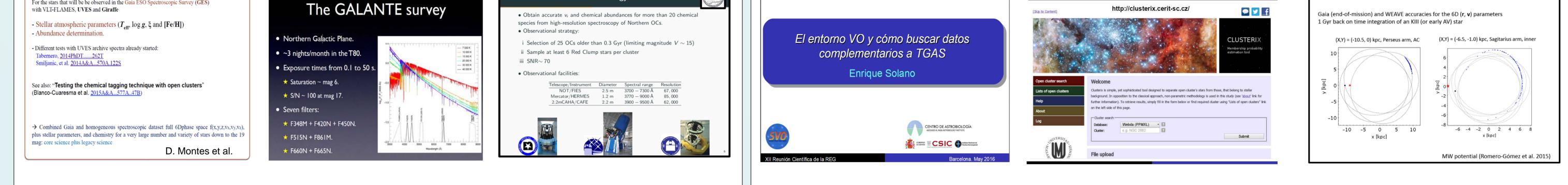
At present, REG plays a prominent role in the preparation of the Spanish community for the use of the Gaia Data Archive (a task lead by the Spanish teams), in the work to exploit the Gaia-ESO Survey collected during the last four years and in supporting the preparation of the Science Case and Survey Plan for WEAVE, the new multi-object spectrograph for the WHT at Canary Islands (commissioning, 2018). These activities will be described together with the schedule of future national and international science meetings and the outreach activities being organized for the First and Second Data Releases.

Gaia, more than 2 years of successful

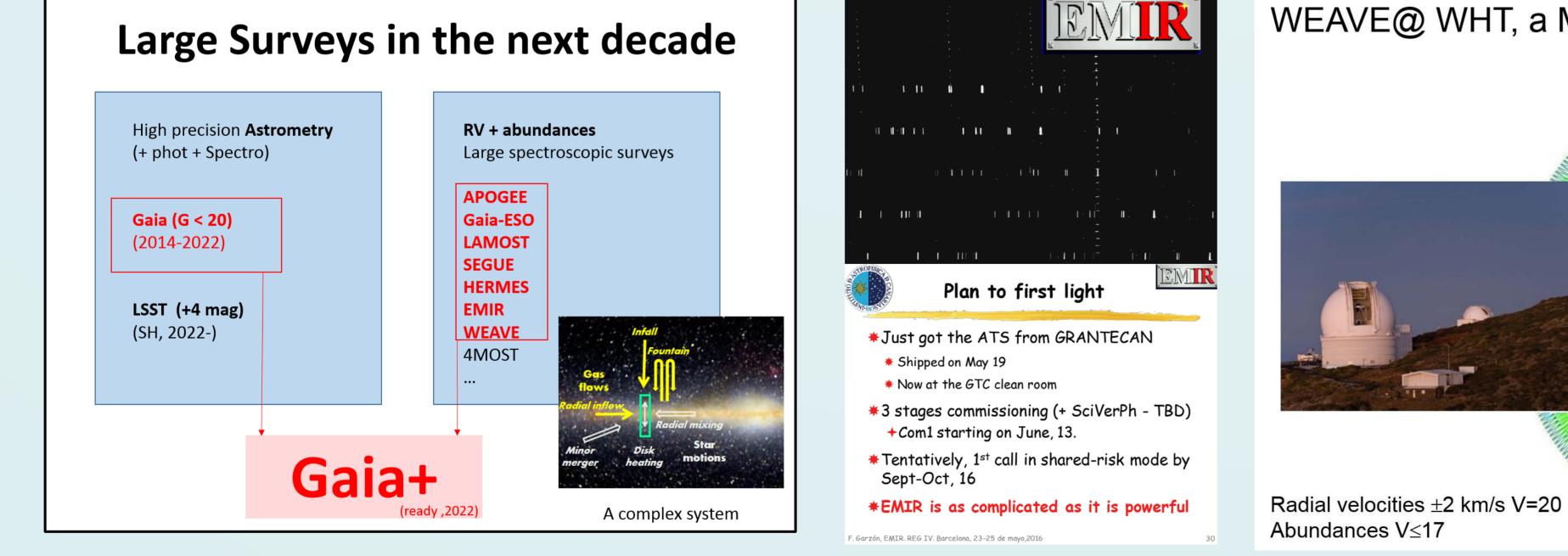


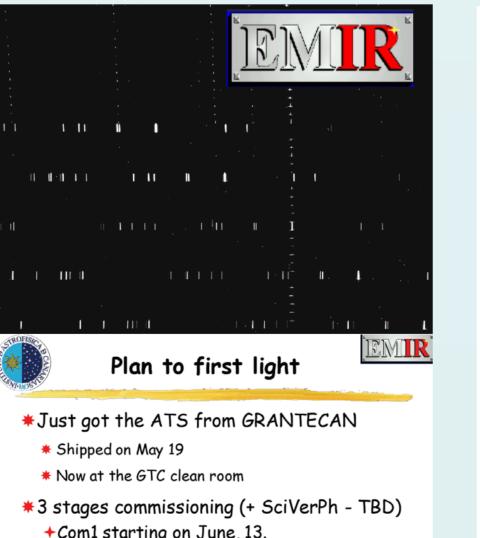
For a full description of the ongoing work inside REG, see slides in the last REG meeting, 23-25 may 2016

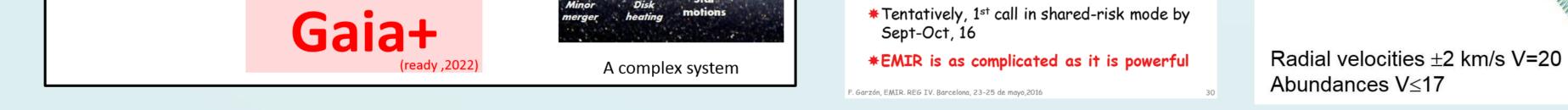
Ongoing Spectroscopic and photometric Surveys, few examples: Ongoing work to prepare tools and statistical methods for Gaia data analysis Gaia + ¿Qué es Clusterix? Orbit computation in realistic galactic potentials Gaia ESO Spectroscopic Survey (GES) Aims and observational strategy For the stars that will be be observed in the Gaia ESO Spectroscopic Survey (GES)

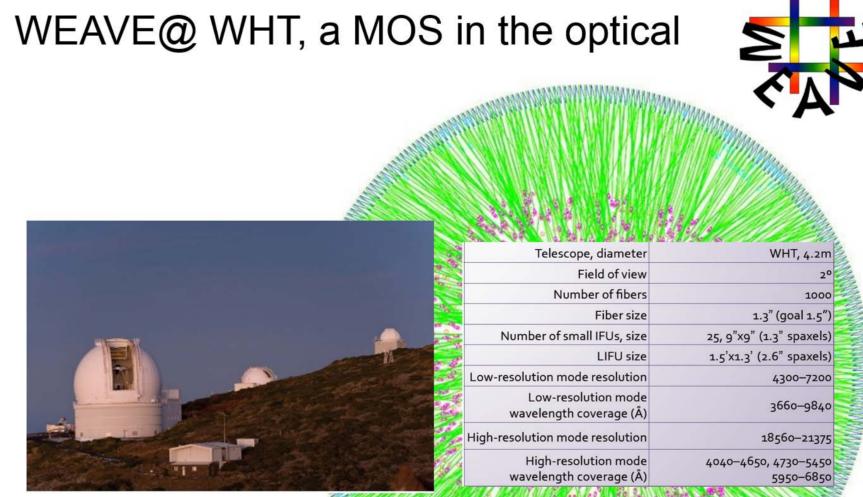


REG participation in future photometric and spectroscopic surveys, some examples being:









REG team is actively working on WEAVE Science Case and Survey Plan documents (commissioning is expected for 2018). REG participates in Stellar, Circumstellar, and Interstellar Physics Survey (SCIP); Galactic dynamics, Halo, Open clusters





REG community participating in the European Gaia GREAT Network

The Gaia Research for European Astronomy Training (GREAT) network is a pan European science driven research infrastructure, which is facilitating, through focused interaction on a European scale, the fullest exploitation of the ESA Gaia 'cornerstone' astronomy mission.

Next meetings (see web):

GaiaChallenge IV, 10-14 Octoer 2016, Nordita, Stocholm, "The aim of the Gaia Challenge is to prepare and discuss the exploitation of Gaia data, galactic dynamics"

Gaia Spring New York City, October 17-21, 2016

Gaia DPAC Consortium Meeting (~250 participants), Sitges, 23 - 27 January 2017

IAUS 330: Astrometry and Astrophysics in the Gaia Sky, Nice, April 24-28, 2017

REG https://gaia.am.ub.edu/Twiki/bin/view/RecGaia/WebHome