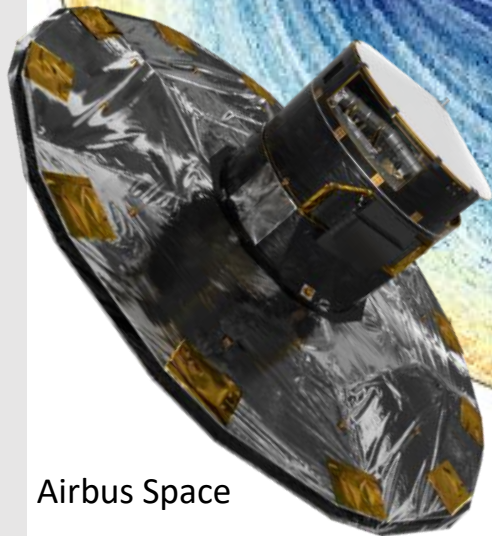


Gaia Data Release 3

Contenidos, novedades y expectativas

Francesca Figueras (ICCUB/IEEC)
en nombre del Equipo Gaia-UB

Brought to you by the
Gaia Collaboration

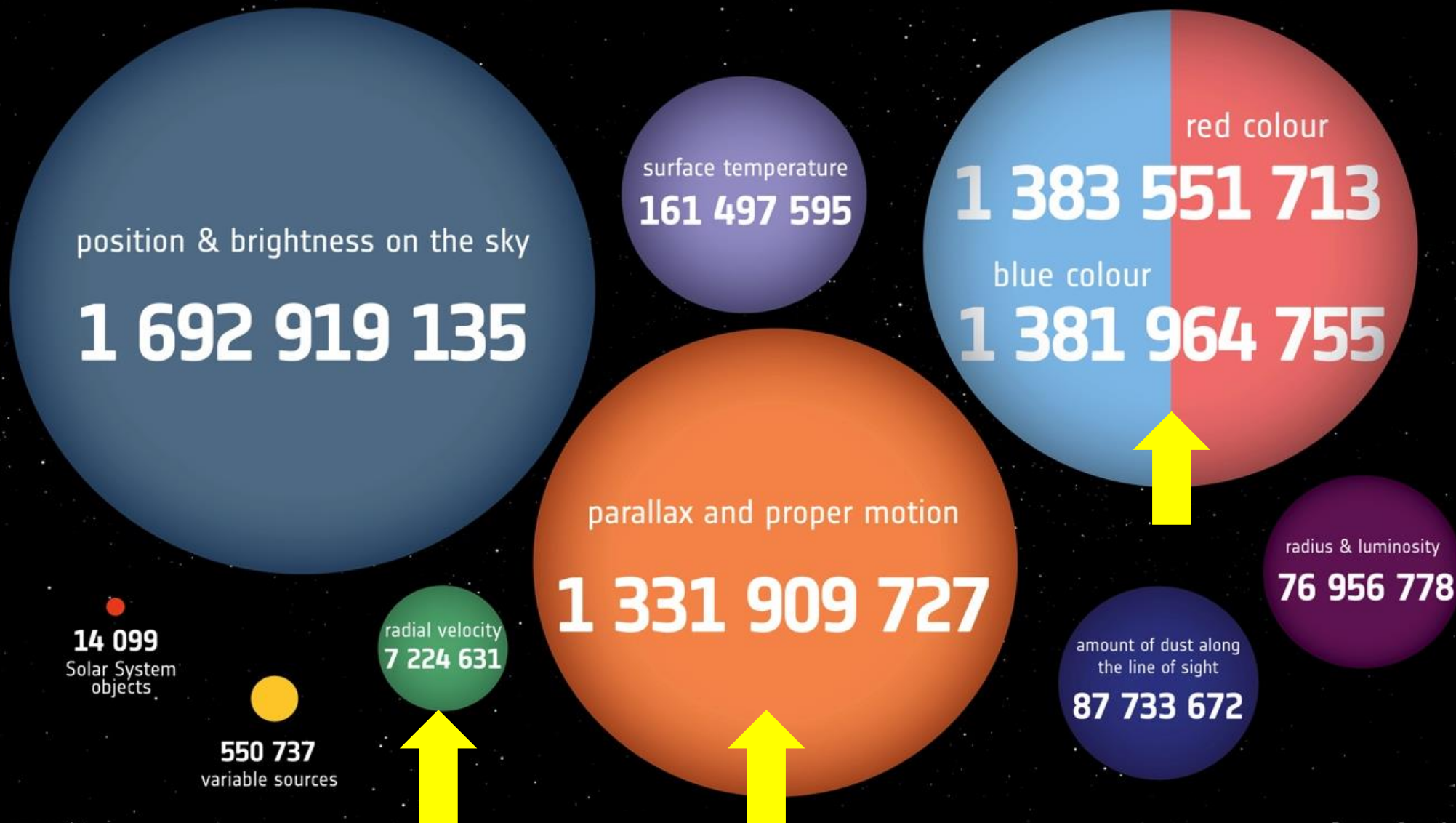


Airbus Space

ESA/Gaia/DPAC

GAIA DATA RELEASE 2

25-abril-2018



GAIA EARLY DATA RELEASE 3

3-diciembre-2020



1 811 709 771
stellar positions

1 806 254 432
brightness
in white light

1 542 033 472
brightness
in blue light

1 540 770 489
colour

1 467 744 818
parallax and
proper motions

1 614 173
extragalactic
sources

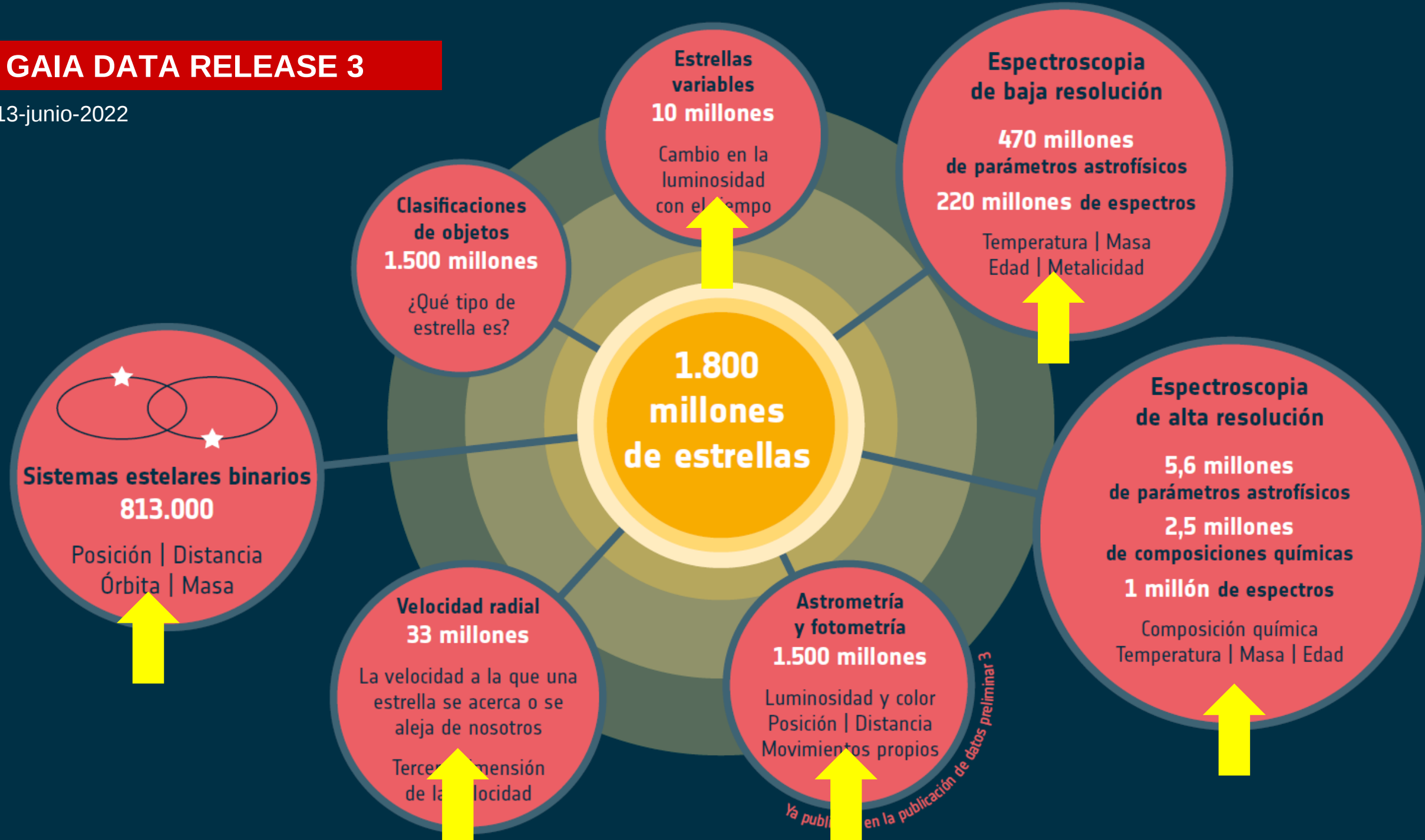
1 554 997 939
brightness
in red light

#SpaceCare #ExploreFarther



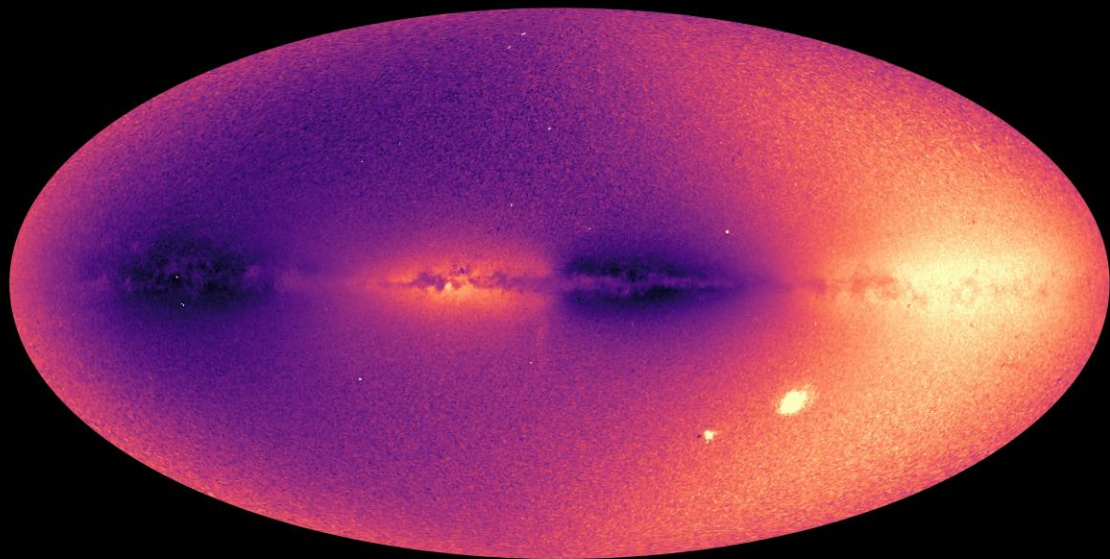
GAIA DATA RELEASE 3

13-junio-2022

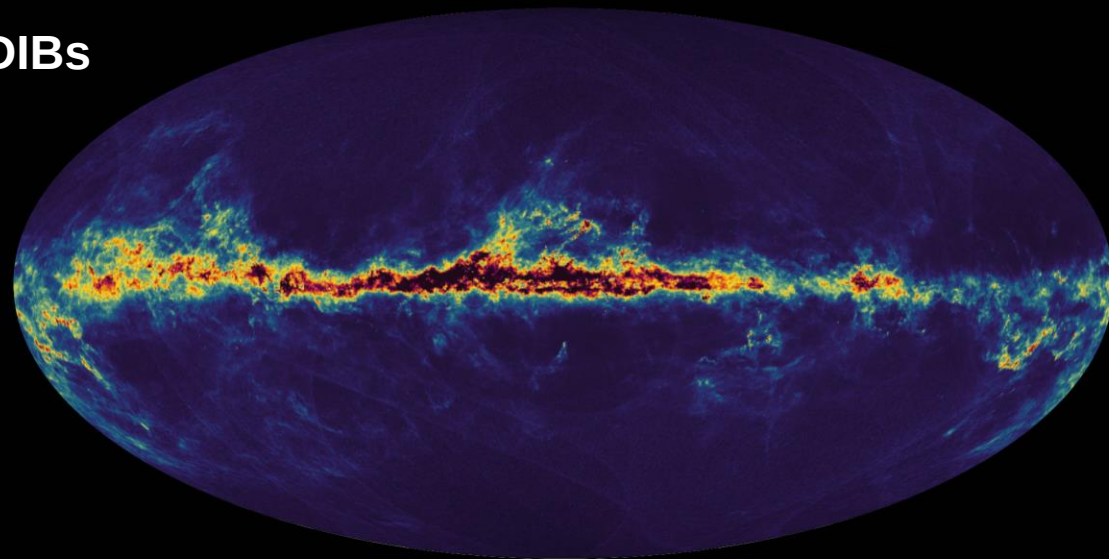


GAIA DATA RELEASE 3

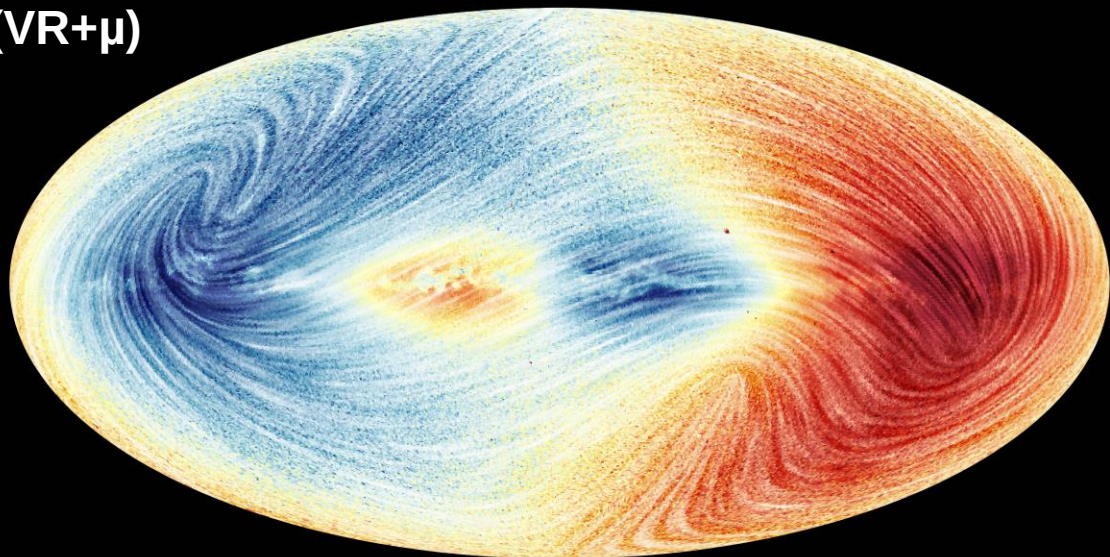
VR



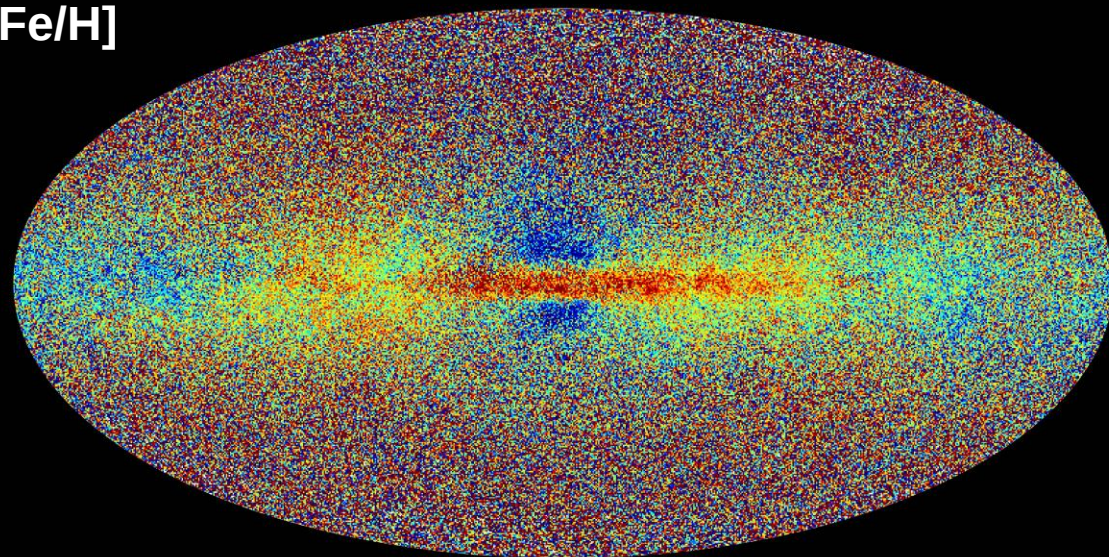
DIBs



3D (VR+ μ)



[Fe/H]



Gaia DR3 papers (45)

Summary paper (1)

Contents and survey properties

PV papers (9)

overview of the science potential

PROCESSING papers (35)

Complementary to the Gaia DR3 documentation

Catalogue Validation (1)

BP/RP spectra (2)

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RVS spectra and radial velocities (6)

RV processing, RV Hot-star, line broadening, mean RVS spectra, magnitude GRVS , RV of double lined spectra

Astrophysical parameters (6)

Overview, stellar parameters, non-stellar content, chromospheric activity and mass accretion, Stellar parametrizer from photometry, and from spectroscopy module

Non-single stars (4)

Processing: eclipsing binary, spectroscopic binary, astrometric binary and with MCMC and GA

Variable stars (13)

Processing, classification, Cross-match with literature, ellipsoidal variables (NS, BH), solar like, YSO candidates, LPVs, eclipsing binaries, RR-Lyrae, Cepheids, AGN, microlensing events, Scan-angle dependent signals

Galaxies and host galaxies of QSO (1)

Solar system objects (1)

Gaia Andromeda photometric Survey (1)

DR3 - Performance verification papers



Mapping the asymmetric disc of the Milky Way

Gaia Collaboration, Drimmel, R., et al.

Pulsations in main-sequence OBAF stars

Gaia Collaboration, De Ridder, J., et al.

Reflectance spectra of solar system small bodies

Gaia Collaboration, Galluccio, L., et al.

The Galaxy in your preferred colours. Synthetic photometry from Gaia low-resolution spectra

Gaia Collaboration, Montegriffo, P., et al.

Stellar multiplicity, a teaser for the hidden treasure

Gaia Collaboration, Arenou, F., et al.



The extragalactic content

Gaia Collaboration, Bailer-Jones, C.A.L., et al.



Chemical cartography of the Milky Way

Gaia Collaboration, Recio-Blanco, A., et al.



Golden Sample of Astrophysical Parameters

Gaia Collaboration, Creevey, O.L., et al.

Exploring and mapping the diffuse interstellar bands

Gaia Collaboration, Schultheis, M., et al.

Gaia DR3 papers (45)

Summary paper (1)

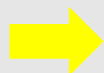
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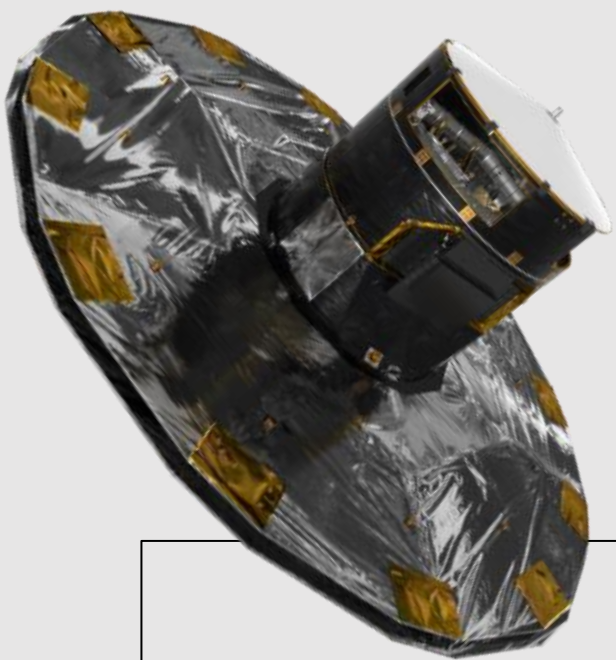
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Gaia Andromeda photometric Survey (1)



Como se ha demostrado en anteriores entregas,
los descubrimientos más inesperados y espectaculares
llegarán en las próximas semanas, en cuanto empecemos a
distinguir los secretos que atesoran estos datos