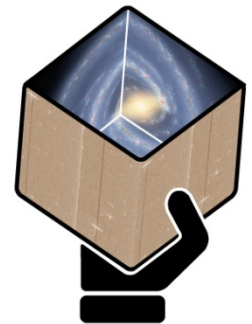


# GENIUS Mid-Term review

## Report for WP4



**gaia**



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# Data exploitation tools

A use of the Gaia archive based on simple queries would only allow a basic use of its potential. To fully exploit a billion object data set, containing a wide variety of data (astrometric, photometric, spectrophotometric, spectroscopic, . . . ) more advanced and powerful data exploration tools will be needed.

This work package is devoted to the development of such tools, in close coordination with WP200 to ensure that they are tailored to the actual needs of the scientific user community.



gaia



# Work Packages

**Contributors:** UB (coord.), CSIC, FFCUL, UBR

Work divided in four areas:

- Visualization
- Data mining (including grand challenges)
- VO tools and services

Additionally: support for outreach and academics

# WP4.1 - Coordination

The tasks in this work package are mostly independent from each other. The coordination by the UB has focused on tracking progress of each of them with the respective coordinators in each institution: André Moitinho (visualization, also coordinator of CU9 visualization tasks) , Data Mining (localised at UB, led by F. Julbe also coordinator of CU9 data mining tasks) and VO tools (mostly with Enrique Solano and some contact with Mark Taylor).

This has been complemented with global updates during the general meetings and teleconferences.

# WP4.2 – Visualization

FFCUL (coord) and UB

Presentation by A. Moitinho

# WP4.3 – Data mining

UB (coord) and CSIC

Presentation by F. Julbe

# WP4.4 – VO

CSIC (coord) and UBR

## Task 1: VOSA (CSIC)

This task has started in 2015; due to administrative problems in CSIC it has been carried out mostly by permanent personnel instead of hired personnel. This has introduced some delay in its development but the task is well advanced.

VOSA is now adapted to the Gaia archive TAP interface and has significantly increased its capability to handle massive data sets.

# Task 2: TopCat (UBR)

Presentation by M. Taylor