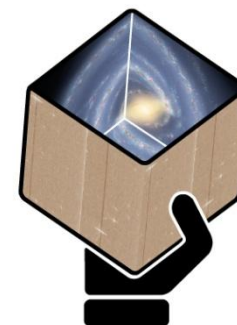


# GENIUS

## WP4 - Visualization



**gaia**



***A. Moitinho***



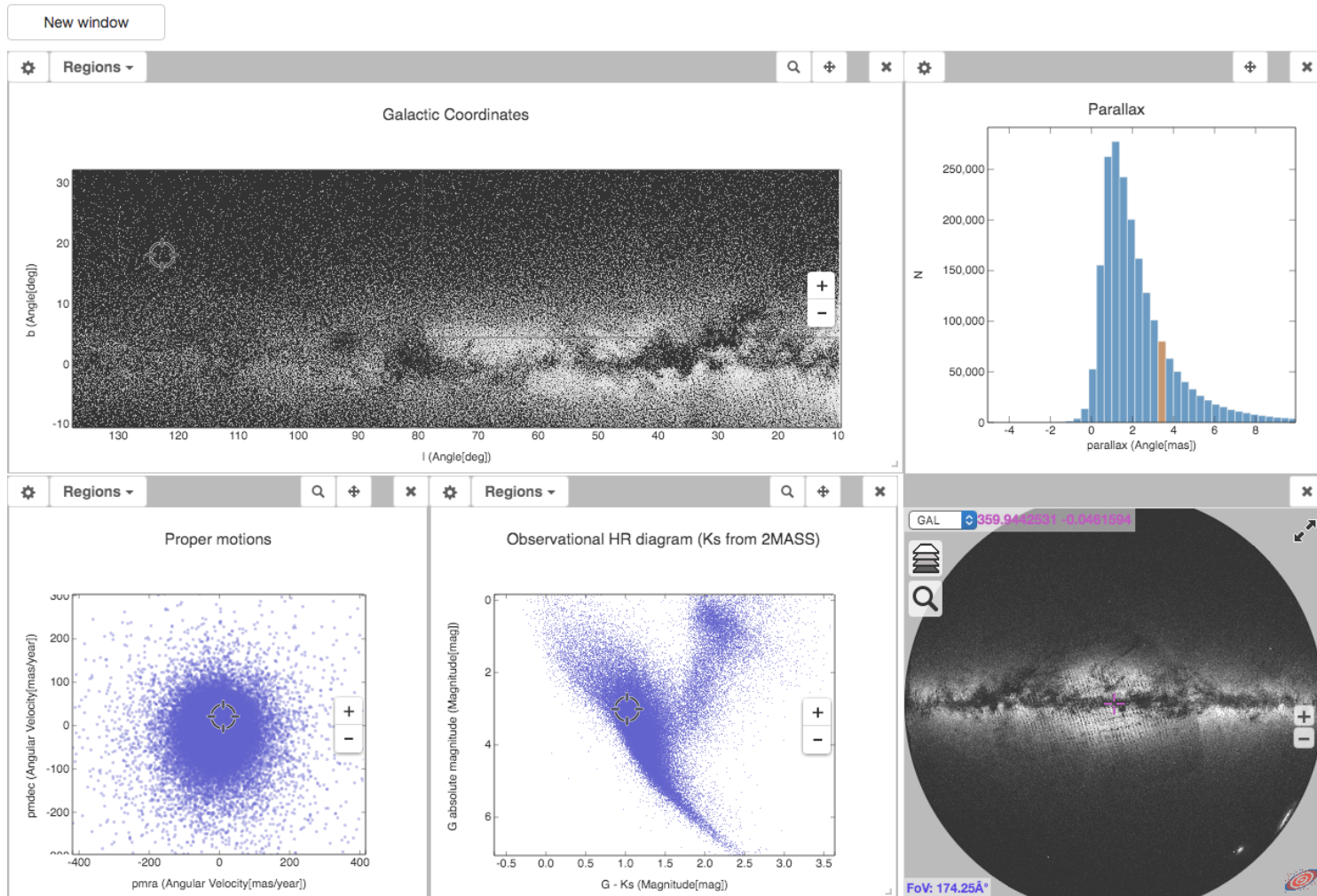
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# DR1 visualization services

## Web based desktop



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# Fixed list of pre-defined visualisations

## 2D scatter plots:

Galactic panorama, 2mass HR diagram, proper motion diagram.

Capable of dealing with  $> 1$  billion sources

Detail on demand (DoD).

Visually generated ADQL queries for sky maps.

Supports DS9/JS9 region files.

## 1D Histograms

l, b, proper motions, G mag, G flux, ...

Capable of dealing with  $> 1$  billion sources.

On the fly computation with arbitrary, user specified, number of bins



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# Plans for DR2

## More plot types and extended features:

- 2D binned plots (density or attribute maps)

- Hybrid 2D density/scatterplots

- Time series. with folding

- Line plots (DoD under analysis)

- Multiple layers

- Annotation tools (draw, write)

- 3D

## Related to integration with archive (CAS authentication):

- Visualisations of subsets

- User triggering of new (not precomputed) visualisations

- Visualisation of user tables.

- Extended Visual generation of ADQL queries (and submission of queries). New indexes at GACS.

- Session saving and resuming

- Sharing visualisations



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## Under study:

SOM vis of CU8 as a plug-in

Extra tools from CU7

SAMP

Public API