



ID de Contribution: 62

Type: **Oral presentation**

Astrometric search for exoplanets in the Alpha Cen system with GRAVITY

The Alpha Centauri system comprises the two solar-like stars A and B and the red dwarf Proxima. Together they are our closest cosmic neighbours, making them a particularly interesting target for exoplanet searches. We are analysing 3 years worth of astrometric data on Alpha Cen A/B with the hope of recovering an exoplanetary signal. This presents a unique set of challenges due to the proximity of the target, including saturation issues and high proper motion. We have generated a new set of data reduction tools that can be used in concurrence with the pre-existing pipeline in order to mitigate some of these issues. Finally, we are in the process of observing conjunction events between Alpha Cen A/B and background stars, in order to locate the position of potential planets within the system.

Field

Planetology (including small bodies and exoplanets)

Day constraints

Available all three days, no particular preference.

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Classification de thématique: Astrophysics