



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 Session:** Talk

**Classification de thématique:** Astrophysics