



ID de Contribution: 77

Type: **Oral presentation**

## **Study of the long term variability of the Very High Energy gamma-ray source at the centre of our Galaxy**

*jeudi 24 mars 2022 16:45 (10 minutes)*

The Galactic centre is a prime observation target for Very High Energy gamma-rays. A point-like source (possibly linked to the Supermassive Black Hole SgrA\*) as well as a diffuse emission covering the central 200 pc have been discovered. With now 16 years of survey by HESS and the latest data analysis tools of gammapy, we performed a spectral and morphological study of the GC, and we monitored its flux since 2004, in search of potential variability. Although no such variability was found, this study allowed for a better understanding of HESS sensibility to time variations in this region.

### **Field**

Compact objects (supernovae, black holes, neutron stars)

### **Day constraints**

**Auteur principal:** ZOUARI, Samuel (APC - Université de Paris)

**Orateur:** ZOUARI, Samuel (APC - Université de Paris)

**Classification de Session:** Talk

**Classification de thématique:** Astrophysics