

---

## Searching different molecules on JWST's WASP-39b data via CC

---

Emma Esparza-Borges (Instituto de Astrofísica de Canarias (IAC))  
Mercedes López-Morales, Enric Pallé, Núria Casasayas-Barris, Jea Adams

JWST observed for the first time the hot-Jupiter WASP-39b on July 2022. So far, several atomic and molecular species have been detected in its atmosphere through transmission spectroscopy (e.g Na, K, H<sub>2</sub>O, H<sub>2</sub>S, CO<sub>2</sub>, CO, CH<sub>4</sub>). Here we present our search for different molecules using cross-correlation (CC) with JWST NIRSpec/G395 data.