



# EINLADUNG

im Rahmen des Teilchenphysikseminars

zum Vortrag von

**Anita REIMER**  
(University of Innsbruck)

über

***“Cosmic rays in jets of Active Galactic Nuclei“***

**Abstract:**

Gamma rays, high-energy neutrinos and cosmic rays impinging on Earth signal the existence of environments in the Universe that allow acceleration of particle populations into the extremely energetic regime. Jets of Active Galactic Nuclei (AGN) - powerful relativistic matter streams emanating from the core of distant galaxies that host supermassive black holes - are among the most numerous persistent source populations in the high-energy gamma-ray sky, and are considered prime candidate sources of the ultra-high-energy cosmic rays (UHECRs) observed on Earth.

In this presentation I will discuss aspects of the survival, workings, possible signatures and role of UHECRs in various environments that jets of AGN offer.

---

**Zeit: Dienstag, 7.5.2024, 16:15h**

**Ort: Erwin-Schrödinger-Hörsaal, Boltzmannngasse 5, 5. Stock**

**Zoom Meeting:**

Meeting ID: 933 4269 3866 Passcode: 185096

<https://univienne.zoom.us/j/93342693866?pwd=aUpTR0VJNUhJY2Q0ajdaKzI1YWVVBQTO9>