

Contribution ID: 75

Type: **not specified**

# Ultra High Energy Cosmic Ray Composition Estimation using the AugerPrime Radio Detector

*Friday, 28 June 2024 12:00 (15 minutes)*

The ongoing inclusion of the Radio Detector (RD) in the AugerPrime Observatory marks a significant advancement in the observatory's capabilities. The Pierre Auger observatory has enhanced our understanding of ultra-high energy cosmic rays (UHECR) for the past two decades. By equipping each of the 1660 detector stations and spanning an area of 3000 km<sup>2</sup> with radio antennas, the observatory will be the world's largest radio array dedicated to studying Extensive Air Shower (EAS) physics. This talk will be on the radio detection of cosmic rays and the exciting prospects of radio interferometry being applied to the detection of air showers.

**Presenter:** BWEMBYA, Anthony (Radboud University)

**Session Classification:** Contributed talks