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## Recent Results from the HAWC Gamma Ray Observatory

Monday 8 July 2024 10:30 (30 minutes)

The High-Altitude Water Cherenkov (HAWC) gamma-ray Observatory is an extensive air shower array consisting of 300 Water Cherenkov detectors located at 4100 m in Puebla, Mexico. With a wide field-of-view of ~2 sr, operating 24 hrs/day with a high duty cycle (> 95%), it is the perfect instrument to perform all-sky monitoring. HAWC has been surveying the gamma-ray sky since 2015 and has improved its performance at background rejection and energy resolution with the recently developed PASS 5. In order to probe and understand the cosmic rays acceleration mechanisms, very-high energy gamma-ray observations are crucial. In this talk I will present the most recent results and highlights from the HAWC Observatory concerning cosmic rays studies and its implications for understanding the most powerful particle accelerators in our Galaxy.

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Session Classification: Invited talks