Contribution ID: **145** Type: **Contributed talk**

The observations of the very-high-energy gamma-ray sky by HAWC

Tuesday 25 July 2017 16:31 (15 minutes)

The High Altitude Water Cherenkov (HAWC) observatory is an air shower detector designed to study very-high-energy gamma rays (˜100 GeV to ˜100 TeV). It is located in the slopes of the volcano Sierra Negra in the state of Puebla, Mexico at an elevation of 4100 m. HAWC has a instantaneous field of view of 2 sr and a duty cycle of >95%, scanning 2/3 of the sky everyday. In this talk we will report the observations by HAWC that include the detection of ˜40, point and extended, gamma-ray sources (already known and new) as well as their physical properties. Also HAWC monitors the flux from the Crab Nebula and two nearby active galactic nuclei, Mrk 421 and Mrk 501, every day as well as searching for transient on various timescales from other sources. HAWC also provides follow-up observations for alerts sent by other instruments like LIGO and IceCube.

Author: Dr GONZALEZ MUÑOZ, Adiv (Instituto de Fisica UNAM)

Co-author: HAWC COLLABORATION

Presenter: Dr GONZALEZ MUÑOZ, Adiv (Instituto de Fisica UNAM)

Session Classification: Cosmology, Gravitational Waves, & Cosmic Rays

Track Classification: Cosmic Rays