



Contribution ID: 212

Type: Oral

## Ultra High Energy Neutrinos with Radio

*Friday, 7 September 2018 14:50 (30 minutes)*

The optical Cerenkov technique has been tremendously successful and has now measured astrophysical neutrinos up to  $\sim 10$  PeV. At higher energies, the neutrino fluxes become so low that  $\text{km}^2$  detection areas are not enough, and other techniques are needed to cover areas of order  $100 \text{ km}^2$  or more. I will give an overview of searches for neutrino-induced showers at the highest energies using radio techniques. I will review complementary strategies for searching for neutrino-induced radio impulses that include viewing the Antarctic ice sheet from the stratosphere, searching from within the Antarctic ice sheet, and searching for the radio signature due to air showers from tau decay products. I will also touch on new ideas under development.

**Primary author:** Prof. CONNOLLY, Amy (Ohio State University)

**Presenter:** Prof. CONNOLLY, Amy (Ohio State University)

**Session Classification:** UHE and HE CR future experiments