



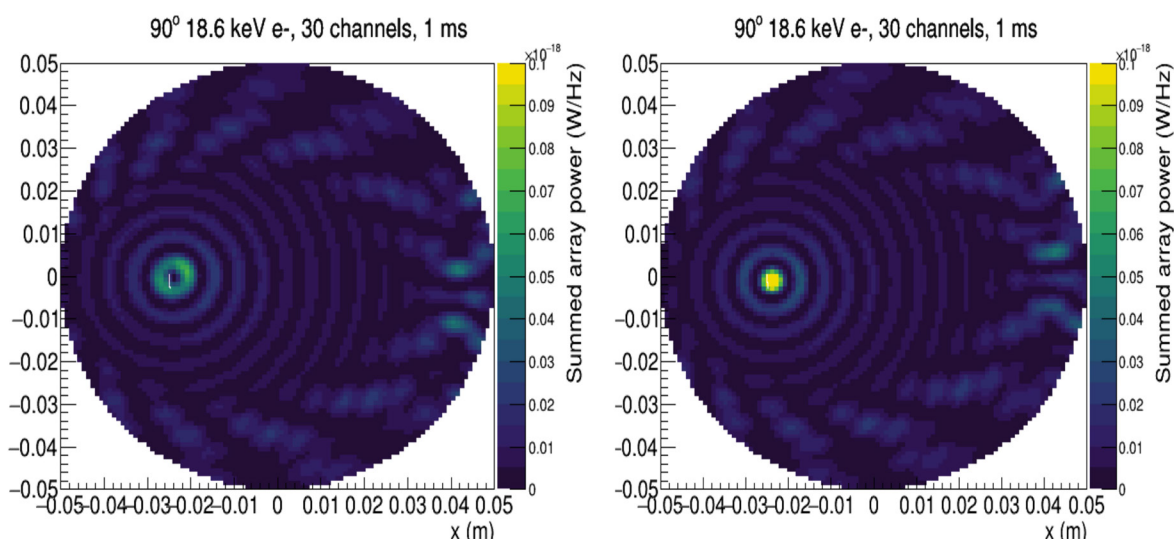
Wright
Laboratory

Tim Wendler

Penn State

Thursday, September 19, 2019 at 1:00 p.m. in WL-216

Progress toward Phase III design of the Project 8 experiment



Tim Wendler is a Post-Doc at Penn State and is developing advancements in the Project 8 experiment, an endeavor to constrain the effective mass of the electron neutrino. The first two phases of Project 8 have demonstrated CRES (Cyclotron Radiation Emission Spectroscopy) in cm-scale waveguides with a relatively low volume of gas. We show R&D work for the next phase of Project 8, in which CRES detection will be implemented in a larger volume using micro-strip patch antenna arrays. Previous work by Tim using spot-light mode Synthetic Aperture RADAR overlaps with some of the applied principles in free-field CRES and will be discussed as well.

Host: Pranava Teja Surukuchi

Lunch in WLC-245 at 12:00 noon. RSVP: <https://forms.gle/RhbFwcpTV9EzaytT9>