

# Astro- and Particle Physics Prospects of Solar and Supernova Neutrinos

*Thursday, May 12, 2022 2:00 PM (20 minutes)*

Traditionally, the study of solar and supernova neutrinos served a dual purpose. Solar neutrino measurements were the first hint of neutrino flavor physics. Although solar neutrino flavor conversion is now well understood, solar neutrinos still offer a unique environment to study neutrino properties while they also allow to peer into the inside of a star. Similarly, supernova neutrinos probe aspects of neutrino interactions that cannot be studied anywhere else while also shedding light on the dynamics of supernova explosions. My presentation will review what has been learned so far, and give an outlook on future measurements.

**Primary author:** Dr SMY, Michael (University of California Irvine)

**Presenter:** Dr SMY, Michael (University of California Irvine)

**Session Classification:** Supernova & Solar Neutrinos - Parallel

**Track Classification:** Supernova & Solar Neutrinos