Contribution ID: **252** Type: **Parallel Contributed Talk**

A New Window into Neutrino Astronomy with Dark Matter Experiments: Supernova Forecast and the Origin of Supermassive Black Holes

Wednesday, 24 February 2021 11:00 (20 minutes)

Advances in dark matter detection call for even more massive underground experiments than state-of-the-art. I will illustrate how such experiments can act as unique telescopes for exploring neutrino astronomy. As I will show, using neutrinos, future dark matter experiments could potentially offer new insights into forecast of supernovae as well as the origin of supermassive black holes observed in the centers of nearly all galaxies.

Collaboration name

Presenter: TAKHISTOV, Volodymyr

Session Classification: Low Energy Neutrinos

Track Classification: Neutrino Telescopes and Multimessenger