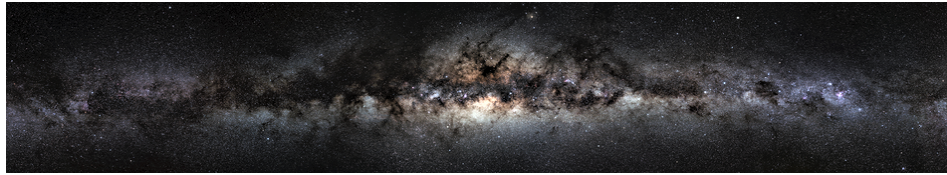


Dark Sectors of Astroparticle Physics (AstroDark-2021): Axions, Neutrinos, Black Holes and Gravitational Waves



Contribution ID: 18

Type: **not specified**

High-Energy Multimessenger Particle Astrophysics

Thursday 9 December 2021 08:50 (40 minutes)

The discovery of high-energy cosmic neutrinos opened a new window of astroparticle physics. Their origin is a new mystery in the field, which is tightly connected to the long-standing puzzle about the origin of cosmic rays. I will discuss theoretical implications of the latest results on high-energy neutrino and cosmic-ray observations, and demonstrate the power of multi-messenger approaches. I will also highlight recent developments about astrophysical neutrino emission and discuss some possibilities of utilizing high-energy neutrinos as a probe of physics beyond the Standard Model.

Primary author: MURASE, Kohta (Penn State/YITP, Kyoto)

Presenter: MURASE, Kohta (Penn State/YITP, Kyoto)

Session Classification: Plenary