



Contribution ID: 29

Type: **not specified**

The dawn of high energy neutrino astronomy

Thursday, 8 September 2022 09:00 (30 minutes)

Current knowledge of the Universe is based on information carried by electromagnetic radiation, gravitational waves, neutrinos, and cosmic rays. For over a century, scientists have observed cosmic rays, but the understanding of their place of production is limited. As a product of cosmic ray interaction, neutrinos can shed light on the extreme part of the Universe. IceCube Neutrino Observatory has been leading neutrino astronomy research over the last ten years and is the only observatory with the exposure to detect high-energy neutrinos beyond Earth's atmosphere.

This presentation will highlight the IceCube observations, including new recent results, and anticipate future opportunities.

Summary

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Session Classification: III Plenary