## Workshop on Machine Learning for Analysis of High-Energy Cosmic Particles



Contribution ID: 34 Type: Talk

## The Radar Echo Telescope for Cosmic rays

Wednesday, 29 January 2025 15:10 (20 minutes)

The Radar Echo Telescope for Cosmic Rays (RET-CR) was deployed this year at the high-altitude Summit Station in Greenland. Its primary goal is to detect in-ice continuations of high-energy cosmic-ray-induced air showers using the radar echo method. Successfully detecting in-ice cosmic-ray signals through this technique would provide significant insights and serve as a foundation for the establishment of the Radar Echo Telescope for Neutrinos (RET-N).

This talk will focus on the radar echo technique, analysis of RET-CR surface station data for reconstruction of key parameters, including primary energy, arrival direction, and core positions. It would also involve studying the combined askaryan and radar signals.

## **Type of Contribution**

poster / flash talk (for work in progress)

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Session Classification: Talks