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Results from the ARIANNA high-energy neutrino detector

Tuesday 7 June 2022 09:35 (25 minutes)

The ARIANNA in-ice radio detector explores the detection of UHE neutrinos with shallow detector stations on the Ross Ice Shelf and the South Pole. I will present recent results that lay the foundation for future large-scale experiments. I will show a limit on the UHE neutrino flux derived from ARIANNA data, measurements of the more abundant air showers, results from in-situ measurement campaigns, a study of a potential background from internal reflection layers, and give an outlook of future detector improvements.

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