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Structure, composition and dynamics of Earth's interior - probing with neutrinos

Session Title: Structure, composition and dynamics of Earth's interior - probing with neutrinos

Session Description:

Geoscience presents unique experimental challenges, including measuring the magnitude and distribution of radiogenic heating in the mantle and probing the composition of the core. The emerging field of neutrino geoscience offers novel techniques for tackling these tasks. Ongoing detections of geological neutrinos at Japan and Italy are beginning to resolve radiogenic heating in the mantle, leading to constraints on models of the bulk composition and the thermal evolution of the Earth. Proposed detections of atmospheric neutrinos passing through the core are sensitive to electron density, which can help explain the light element puzzle. This session focuses on recent experimental results and the applications of neutrino geoscience.

Primary Section/Focus Group: Union

SWIRL Theme: None

Live Stream/On-Demand: Yes

Index Terms:

1025 Composition of the mantle [GEOCHEMISTRY]

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 - Your Session ID# is: 3185.
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