



CERN Colloquium

SPEAKER: Philipp Eller
TITLE: **Neutrinos in Ice**
DATE: 4 Apr 2019, 16:30
PLACE: 503-1-001 - Council Chamber

ABSTRACT

At the South Pole, in the middle of Antarctica, we have drilled deep holes down into the glacial ice to instrument a cubic kilometer of this highly transparent and pristine medium with very sensitive light sensors. This detector called “IceCube” allows us to capture the dim trace of light that some neutrinos leave behind when they interact in the ice. We use its data to study neutrinos from various origins, some of which had travelled for billions of years through the universe before finally arriving in the detector. Our research focuses on several topics, ranging from neutrino astrophysics and multi-messenger astronomy to particle physics and the fundamental properties of neutrinos. In this talk I will highlight some of the most recent results in these areas.

Organised by: W. Lerche/TH-SP..... Tea and coffee will be served at
16h00