Partikeldagarna 2018 (Lundmarksalen) + Discussion Session on the Swedish Input to the European Strategy of Particle Physics (Sal A)



Contribution ID: 7

Type: not specified

The Next Generation Radio Detector for Extermely High Energy Neutrinos (12'+3')

Tuesday 16 October 2018 10:15 (15 minutes)

Neutrinos in the Energy range above 10 PeV will provides important information on very high energy processes in the universe and the origin of the highest energy Cosmic rays. Additionally neutrino properties can be studied. The detection of these neutrinos is challenging, a large volume of detector material needs to be monitored. The economically feasible method is detection of radio signals from Askaryan pulses formed in ice after neutrino interactions. Prototype work has been ongoing for several years, e.g. in the ARIANNA and ARA collaborations. These two collaborations are now preparing for a common large scale neutrino detector based on the in-ice radio technique. I will present the status of these plans.

Author: HALLGREN, Allan (Uppsala University)Presenter: HALLGREN, Allan (Uppsala University)Session Classification: Partikeldagarna 2018