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## The Radar Echo Telescope: Simulation and Optimization

The RET-N project aims to detect  $> 10$  PeV neutrino-initiated cascades in ice using the radar echo technique. This will be a novel way of detecting cosmic neutrinos that will complement current approaches by other experiments. Here we discuss details of detector optimisation studies for the RET-N pathfinder and prototyping project. Furthermore, we present the modelling efforts to predict the radar signal from an ultra high energy neutrino or cosmic ray induced particle cascade.

### Mini-abstract

Simulation studies towards  $> 10$  PeV neutrino detection in ice using radar echoes.

### Experiment/Collaboration

Radar Echo Telescope Collaboration

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