



The Radar Echo Telescope for Cosmic Rays (RET-CR): Pathfinder Experiment for a Next Generation Neutrino Observatory

- We discuss a pathfinder experiment to test the *radar echo* method of neutrino detection.
- This method is a new and promising strategy to detect neutrinos with energy $>10\text{PeV}$.
- We have validated the method in the lab ([PRL](#)) and have received NSF (PHY2012980) and EU Horizon 2020 (ERC) funding to build RET-CR as a bridge between lab results and a neutrino detector.
- RET-CR will use the in-ice cascade from a cosmic ray air shower as a test beam!

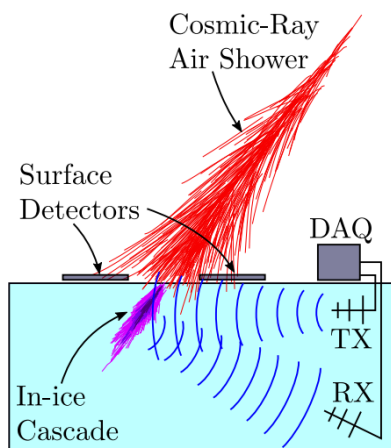


Fig.1: Experimental concept.

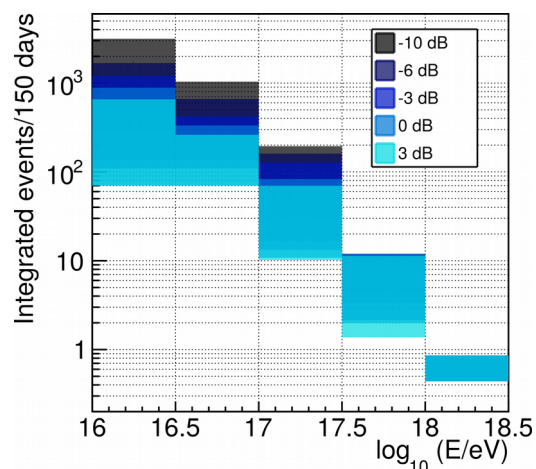


Fig. 2: Integrated events per austral season.