## Cosmic Ray programme and connections to other Nikhef activities

**Charles Timmermans** 



**HiSPARC electronics!** 

Low power electronics



## Combined articles

Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory The Astrophysical Journal Letters, 850:L35, 2017

Multi-messenger Observations of a Binary Neutron Star Merger

The Astrophysical Journal Letters, 848:L12, 2017

Search for correlations between the arrival directions of IceCube neutrino events and ultrahighenergy cosmic rays detected by the Pierre Auger Observatory and the Telescope Array JCAP 01 (2016) 037

## Neutrinos and Cosmic Rays



## Future for Neutrinos (und UHE photons and UHECR)

