Neutrinos

KM3NeT/ORCA: operational with 6 DUs since >1 year, 7 more DUs ready for deployment (November?) (deployment needs triple coincidence: 2 boats available, permits, weather)

KM3NeT/ARCA: sea operation September 2021:



Deployment of two tripods with acoustic beacons (position reconstruction) Laying interlink cables, deployment of DUs Edward Berbee on boat, Rasa Muller on-shore

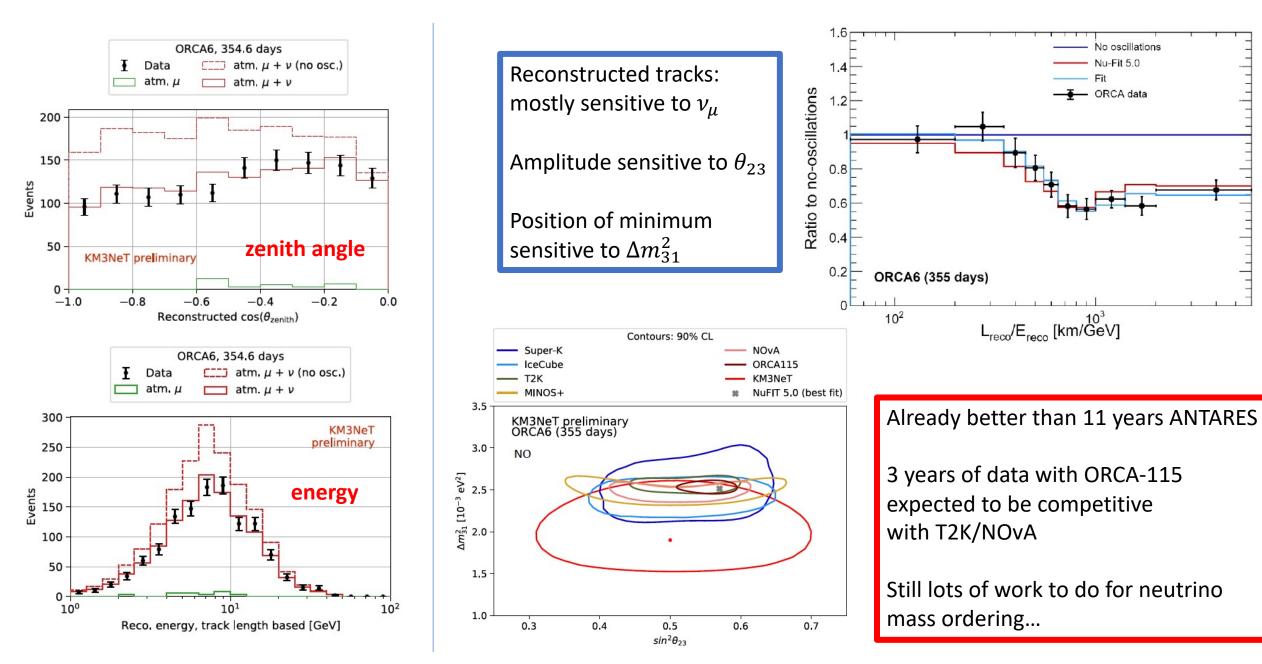
Now taking data with 8 DUs 9th DU is deployed, but not connected.

May 2022: new junction box, at least 9 more DUs to be deployed

PhD defenses: Milo Vermeulen (DUNE) 9/11 Karel Melis (KM3NeT) 10/11 New PhD since May: Clara Gatius (KM3NeT) since August: Vikas Gupta (DUNE) Postdoc since June : Alba Domi (KM3NeT)



Observation of oscillations of atmospheric neutrinos with one year of data from six ORCA DUs



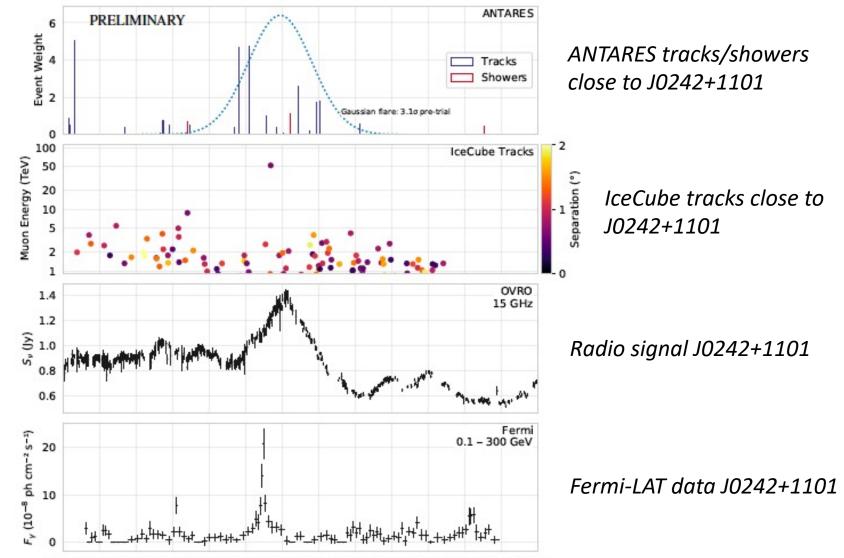
ANTARES

Presented earlier: possible correlation of ANTARES events with radio blazars.

Here: search for neutrino flares from radio blazars with 13 years of ANTARES data.

A few interesting candidates, but post-trial p-values modest.

One source (J0242+1101) interesting due to time correlations with IceCube, radio and Fermi-LAT.



2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021