



REINFORCE
REsearch INfrastructures FOR Citizens in Europe



KM3NeT

REINFORCE

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Executive summary:

What is this contribution about?

REINFORCE is a Citizen Science project that invites people to search through data of large research infrastructures such as VIRGO, KM3NeT, ATLAS or muon tomography, for particular signals. We describe the case of searching the data of the neutrino telescope KM3NeT

Why is it relevant / interesting?

While computers might outshine humans in analysing very large data sets, human eyes and ears are still better than a computer at noticing subtleties. For some analysis tasks, not enough researchers are available. Interested citizens can support the research by participating in dedicated data searches.

What have we done?

REINFORCE has produced four science demonstrators that will soon be available on the Zooniverse platform. In the Deep Sea Hunter demonstrator, citizen scientists will be asked to classify events recorded by the KM3NeT detector and to identify different signatures of bioluminescent species and sea mammals using light and acoustic data.

What is the result?

The kick-off of the demonstrators is expected to be available in the second half of 2021. Citizen Scientists will analyse data from the different experiments involved in the project, and will start to produce results together with the REINFORCE team.

