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REINFORCE

REsearch INfrastructure FOR Citizen in Europe

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On behalf of the REINFORCE Consortium and KM3NeT Collaboration





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REINFORCE has started the 2019/12/01 Website: <u>https://reinforceeu.eu/</u>

Minimizing the knowledge gap between Large Research Infrastructures and Society through Citizen Science

4 Science Work Packages:

- WP3: Gravitational Wave Noise Hunting
 - Noises in VIRGO data
- WP4: Deep Sea Hunters
 - KM3NeT data (described in this flash talk/poster)
- WP5: Search for new particles at the LHC
 - Find new particles in ATLAS data at LHC/CERN
- WP6: Cosmic muon Images
 - Muon tomography (geoscience and archeology)

Why Citizen Science?

Practically, for some tasks:

- Humans are better than computers!
- We are not enough in the research world!





CE WP4: Deep Sea Hunters



Illustration of a neutrino event in KM3NeT

Context: KM3NeT Neutrino Telescope

Currently being deployed in the Mediterranean sea!

Deep Sea Hunters goal is two sided:

- Better understand the response of KM3NeT instruments
- Perform bioluminescence and bioacoustics studies!

Citizen Science activities proposed on Zooniverse:

 Bioluminescence: peak counting and "weird" signals identification Bioacoustics: cetacean clicks classifications







Acoustic data (recorded by hydrophones)





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