

STRAW - Strings for Absorption Length in Water

Thursday, 29 November 2018 11:45 (20 minutes)

STRAW - Strings for Absorption Length in Water is a project aimed at investigating the optical properties (scattering and absorption length, in particular) of the deep-sea water at Cascadia Basin (British Columbia, Canada). This is the first step of a broader feasibility study for a future large-scale neutrino telescope in the Pacific Ocean. Two strings equipped with 5 modules for light detection (SDOM - Straw Digital Optical Module) and 3 modules for light emission (POCAM-Precision Optical CALibration Module) have been deployed in June 2018 and connected to the deep-sea infrastructure of Ocean Network Canada (ONC). This work has covered the process of designing, building and calibrating of the SDOMs and the POCAM (already deployed with success in GVD-Baikal in March 2017). During the presentation the system will be accurately described with a special focus on the used technologies and on preliminary results of data-taking.

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