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Study of the calibration potential of HELYCON detectors with ANTARES

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The “Hellenic LYceum Cosmic Observatories Network” (HELYCON) collaboration is constructing a network of detector stations dedicated to the study of Extensive Air Showers. The use of HELYCON detectors is also envisaged for the calibration of a cubic kilometer scale Mediterranean neutrino telescope by means of an array of these detectors at the sea surface. The ANTARES framework is well-suited to perform a first test of the principle: a feasibility study is on-going and a test in real conditions is foreseen. In this talk the requirements for evaluating the calibration potential of a surface array in the ANTARES context are discussed.

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