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Development of combined sensors for UHE neutrino detection

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For future deep-sea neutrino telescopes, the use of acoustic sensors in combination with optical sensors in one detection module could provide unique properties, e.g. complementary neutrino detection methods, inherent position and orientation calibration ability and an enhanced possibility to study the deep-sea environment. A technical advantage of such combined opto-acoustical modules would be the reduction of DAQ hardware and thus costs as well as reducing potentially problematic mechanic parts at the sensor module level. The main challenge for the feasibility is related to the possible interference between optical part and acoustic part.

The presentation describes first steps towards the realisation of a combined opto-acoustical module.

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