

Reliability in KM3NeT electronics: FIDES and HALT

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Two neutrino telescopes are being installed in the Mediterranean Sea by the KM3NeT Collaboration. In order to qualify the electronics two different approaches are taken: The FIDES method, performed to all the electronics boards, is used to order to obtain an estimate of the Failure In Time, as well as to find which components can be optimized in order to increase the reliability of the boards. In addition, the Highly Accelerated Life Tests strategy, a stress testing methodology for enhancing product reliability, performed to the first prototypes of the electronics boards is presented.

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