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Data quality and stability of the Borexino detector

The Borexino experiment, located at Laboratori Nazionali del Gran Sasso, and widely known for its rich Solar Neutrino physics program, has entered its 13th year of data taking. The detector, at present in its high-purity Phase III data taking, was thermally insulated in order to improve the fluid stability. As an outcome, quality of the data has significantly increased leading to new levels of sensitivity to all solar neutrino fluxes and allowing a more sensitive probe for CNO neutrinos.

The quality of the collected data, the stability of the detector as well as the capability to maintain the highest possible duty cycle have been essential for the success of all the Borexino analysis, and have to be constantly monitored. This poster presents the strategies adopted to improve data quality and to maintain the stability of data taking at the same level of reliable operation achieved in the past years.

Mini-abstract

Strategies for data quality and stability of the Borexino detector

Experiment/Collaboration

BOREXINO

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