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Solar neutrinos, geoneutrinos and search for sterile neutrinos with Borexino

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The Borexino is a an excellent and well understood detector for both low energy sub-MeV neutrinos (as proven by the solar neutrino results) and anti-neutrinos.
The European Community has recently approved a project for the construction of a neutrino or an anti-neutrino source which will allow to confirm or unambiguously reject the long standing neutrino anomalies suggested by the LSND experiments, by solar neutrino Gallium experiments and by reactors experiments.
The talk will outline the project and discuss the sensitivity of three different phases of the experiment. Recent solar neutrinos and geo-neutrino results will be reported too.

Primary author: BOREXINO, Collaboration (LNGS)

Presenter: BRAVO, David (Virginia Tech)

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