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The recent results of the solar neutrino measurement in Borexino

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The recent solar neutrino measurements in Borexino will be discussed. This presentation will be the first time for newly releasing the results in Borexino.

The first realtime ^7Be solar neutrino measurement succeeded in Borexino in 2008. After that, due to the precise detector calibration in 2009, the uncertainty of the ^7Be flux measurement will be at 5% level. This result is important, at first, to validate the MSW-LMA oscillation model in vacuum, and at the second, to restrict the evaluation in pp solar neutrino flux. Those issues are discussed.

Next, the result related to the day/night effect in the ^7Be energy region will be discussed. This is important to confirm with only the solar neutrino data (without the reactor antineutrinos) that the LMA is the only solution. In addition to that, it is also possible to check if one of the non standard interaction hypothesis, called MaVaN, is valid or not.

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Classification de Session: Neutrinos

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