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Type: **Invited talk in the parallel session**

## **Electron neutrino survival probability in the energy range: 5 keV- 15 MeV**

*Tuesday, July 6, 2021 6:55 AM (30 minutes)*

Solar neutrinos provide a sample of electron neutrinos of different energies. They are therefore a unique probe of the electron neutrino propagation through solar matter and for the experimental study of the MSW effect. Borexino, with its unique purity and sensitivity, has been able to study individually all components, extracting the best test of electron neutrino survival probability to date. The talk will summarise the results and the state of the art in the field.

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**Session Classification:** Why and How the Sun and the Stars Shine: the Borexino Experiment

**Track Classification:** Fundamental Interactions and Stellar Evolution: Why and how the Sun and the Stars shine: the Borexino experiment