

## Solar neutrinos and future experiments

*Tuesday, 19 August 2025 17:10 (20 minutes)*

In this talk, I will discuss future solar neutrino observatories and their role in measuring solar neutrino oscillation parameters. These observatories will also contribute to determining the structure of the Sun and the Earth through the study of day-night asymmetry. Solar neutrinos, produced via the pp-chain and CNO cycle, travel directly from the solar core to the Earth. Detecting these neutrinos provides crucial insights into the thermonuclear reactions occurring in the solar core, enhancing our understanding of both the Sun and the standard stellar model.

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