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Solar Models, neutrinos and helioseismology

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The exquisite data provided by helioseismology and, more recently, by solar neutrino experiments allow us to determine the physical conditions in the solar interior. Our understanding of solar interior physics, represented by solar models, can then be tested precisely. In this talk, I will review the current status of solar models and the most recent results on solar neutrinos, and discuss some caveats in current models. I will then highlight some open questions for solar physics, stellar and particle physics

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