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Solar Models and Neutrino: where do we stand?

Thursday, 27 February 2020 15:10 (30 minutes)

In this talk, I will present the status of solar models, review the main limitations imposed by uncertain input physics in the models and by external constraints (aka solar abundances), and discuss the current constraints imposed from helioseismic and solar neutrino measurements. Also, I will discuss the implications that our current limitations in modeling the Sun have for stellar physics. Finally, some discussion will be devoted to the importance of a prospective measurement of solar neutrinos from the CN-cycle would have for solar models and other fields.

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