

# The standard solar model up to date: recent developments

*Thursday, September 15, 2016 3:00 PM (20 minutes)*

In this talk I will present the most recent generation of standard solar models (SSM) that include the latest developments in the input physics entering its calculations, most notably updated nuclear reaction rates and radiative opacity calculations and experimental results. I will describe the impact on SSM predictions for helioseismic diagnostics and solar neutrino fluxes and, in the light of recent combined analysis of solar neutrino experiments, discuss consequences for our understanding of solar interior structure. Finally, the necessity of measuring CN neutrino fluxes for learning about solar and stellar physics will be advocated.

## Summary

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**Session Classification:** Neutrinos

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