

# NEUTRINOS

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Wednesday, March 27 ❖ 4:00 P.M. ❖ 118 NSH

Refreshments at 3:30 P.M. in 202 NSH

Ephemeral yet abundant. Always involved in controversy or misunderstanding, neutrinos have been closely present throughout the development of fundamental physics. Neutrinos can be used to explain why the Sun is still producing energy and to measure its internal temperature. They - there are three types - precisely account for the invisible decay channels of the weak boson  $Z$ . We can observe neutrinos produced in supernovae and help determine some of their properties. And yet, we know very little about them. In recent years, thanks to very ambitious and successful experiments across the globe, we have been able to determine some of their properties. The hope is that this new information, together with current and near future experiments, will allow us to decipher more of their mysteries. I will discuss some of these recent results as well as the way in which neutrinos are incorporated into the Standard Model and its most simple extensions.