



Saturday 9 July, 09:45 – 10:05

Session 17: Neutrinos as probes of the universe

Supernova neutrinos: New challenges and future directions

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Neutrinos are key particles in core-collapse supernovae. Traveling unimpeded through the stellar core, neutrinos can be direct probes of the still uncertain and fascinating supernova mechanism. Intriguing recent developments on the role of neutrinos during the stellar collapse are reviewed, as well as our current understanding of the flavor conversions in the stellar envelope. The detection perspectives of the next burst will be also outlined.