

## Invisibles 14 Workshop



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# Supernova neutrinos

*mardi 15 juillet 2014 17:30 (1 heure)*

During a core collapse supernova, a vast amount of neutrinos are emitted from inside the supernova core. The high neutrino density allow for neutrino self interactions which affect the neutrino oscillations in a measurable way. This poster presents the general oscillatory behaviour of neutrinos propagating through a core collapse supernova pointing out certain specific effects due to self interactions. We will also see how the environment of the supernova affects the flavour dependent energy spectra of the neutrinos which have travelled through the star.

Based on work done with J. Elevant

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**Classification de Session:** Poster presentation