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Neutrinos from core-collapse supernovae : flavor mechanisms and future observations

Neutrinos play an important role in dense astrophysical environments, in particular core-collapse supernovae and binary compact merger remnants. Novel flavor mechanisms emerge in these environments due to matter, neutrino self-interactions and also shock waves and turbulence during supernova explosions. In this talk I will highlight recent progress in the field and I will discuss the upcoming important observation of the diffuse supernova neutrino background.

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