Contribution ID: 9 Type: not specified

Supernovae as axion factories: the latest developments

Thursday, 28 October 2021 17:10 (1 hour)

Feebly interacting particles are copiously produced in extreme astrophysical phenomena. A remarkable example is the production of axions and Axion-Like Particles (ALPs) in Supernovae (SNe). The production of exotic particles in SNe leaves imprints in some astrophysical observables as the duration of the SN neutrino burst or the photon cosmic backround. Thanks to the most recent developments in astrophysics it is possible to constrain the properties of axions and ALPs with an unprecedented precision.

Presenter: CARENZA, Pierluca (Bari U, INFN)