Contribution ID: **65**   Type: **not specified**

Neutrino decoupling in standard and non-standard scenarios

We discuss the phenomenology of neutrino decoupling in the early universe, by summarising the details of the calculation in standard and non-standard scenarios. We present the state-of-the-art calculation of the effective number of neutrino species in the early universe (Neff) in the three-neutrino case, which gives Neff=3.044, and show how the result can change when additional particles, non-standard neutrino properties or a non-standard cosmological evolution are considered.

Primary author: GARIAZZO, Stefano (INFN Torino)

Presenter: GARIAZZO, Stefano (INFN Torino)