

SEMPARIS – Séminaires en région parisienne

<http://string.lpthe.jussieu.fr/semparis/>

Séminaire du GReCO : groupe de GRavitation et COsmologie à l'IAP

Lundi 19 Octobre 2020, 11 :00

IAP, Amphitheater and zoom (contact me fumagall@iap.fr if interested)

Domaines : astro-ph

Titre : *A precision calculation of neutrino decoupling*

Orateur : **Julien Froustey (IAP)**

Résumé : *In the primordial Universe, neutrino decoupling occurs only slightly before electron-positron annihilations. This leads to an increased neutrino energy density with order 1. In this talk, I will review the progress made in the last three decades towards such an accurate prediction, and present results including for the first time the full collision term which accounts for neutrino mixing. A particular focus will be placed on the physical effect of neutrino oscillations, which allows for an approximate numerical scheme of striking accuracy.*
