Contribution ID : **201** Type : **Oral talk**

# A non-minimal approximation for the see-saw mechanism type I

*Thursday, 1 December 2022 17:45 (15)*

A non-minimal expansion of the Majorana fermions mass matrix in the framework of the type I see-saw mechanism is considered. The original parametrizations of mixing and mass matrices of the light and the heavy neutrinos are obtained. It is shown that (i) the effective mass matrix is independent on an approximation, (ii) new contributions in the expansion are of the same order as those used in describing bariogenesis in the early Universe. The model regimes in which higher order corrections may be important are discussed.

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**Session Classification :** High Energy Physics: Theory

**Track Classification :** High energy physics: theory