

Leptogenesis assisted by complex scalar singlet

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I will discuss our recent work on the contribution to leptogenesis of a complex scalar singlet added to the type-I seesaw extension of the Standard Model. In this scenario, CP is broken spontaneously from the complex vacuum expectation value of the new scalar rather than the complex character of yukawa couplings, allowing to explain leptonic CP violation at the electroweak scale and also contributing to non-zero leptonic CP asymmetries at the leptogenesis scale.

Primary authors: MARQUES BARREIROS, Débora; JOAQUIM, Filipe Rafael; BRITO CÂMARA, Henrique (Instituto Superior Técnico); GONZALEZ FELIPE, Ricardo

Presenter: MARQUES BARREIROS, Débora

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