



Contribution ID: 7

Type: **Oral**

Neutrino masses from simple scoto-seesaw model with spontaneous CP violation

Monday 5 July 2021 13:45 (15 minutes)

I will discuss our recent work on a simple scoto-seesaw model that accounts for dark matter and neutrino masses with spontaneous CP violation. This is achieved with a single horizontal Z_8 discrete symmetry, broken to a residual Z_2 subgroup responsible for stabilizing dark matter. CP is broken spontaneously via the complex vacuum expectation value of a scalar singlet, inducing leptonic CP-violating effects. We find that the imposed Z_8 symmetry pushes the values of the Dirac CP phase and the lightest neutrino mass to ranges already probed by ongoing experiments.

Authors: BARREIROS, D. (CFTP/IST, U. Lisboa); JOAQUIM, F. (CFTP/IST, U.Lisboa); SRIVASTAVA, R. (Indian Institute of Science Education and Research); VALLE, J. (Institut de Física Corpuscular –C.S.I.C./Universitat de Valencia)

Presenter: BARREIROS, D. (CFTP/IST, U. Lisboa)

Session Classification: Student Talks