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1 ↔ 2 Processes of a Sterile Neutrino Around Electroweak Scale in the Thermal Plasma

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We calculate the thermal processes of a a sterile neutrino with the mass around the electroweak scale 50 GeV ≤ mN ≤ 200 GeV, within this range we developed the method to calculate the 1<->2 process with thermal corrections around the electroweak crossover. Preliminary calculations of leptogenesis have also been performed.

Primary authors: Prof. ZHANG, Hong-Hao (School of Physics, Sun Yat-Sen University, Guangzhou 510275, China); TANG, Yi-Lei (中山大学); 余, 钊焕 (Sun Yat-Sen University)

Presenter: TANG, Yi-Lei (中山大学)

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