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Presentation "Theory of stellar nucleosynthesis at low-energy scales"

Tuesday 21 May 2024 17:30 (30 minutes)

Abstract: "The evolution of the main-sequence stars is governed by the reaction rates of the nuclear processes that occur in their interiors. The talk will cover the topic of a low-energy stellar nucleosynthesis reactions in the systems composed of the non-degenerate matter, in which the Maxwell-Boltzmann distribution is valid. The reaction rates of the resonant and non-resonant reaction tuons will be discussed, as well as the key concepts behind the so-called R and S processes, responsible for the origin of heavy elements, which are created during the collapse of the stars."

Presenter: SOKOŁOWSKI, Marcin (University of Warsaw)

Session Classification: Kindergarten