

# NUCLEAR THEORY FOR ASTROPHYSICS: BRIDGING BOUND- STATE AND CONTINUUM PHYSICS

18-22 May 2026

ECT\* - Villa Tambosi, Villazzano

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## TOPIC

Substantial progress has been made in the reach and precision of nuclear structure and reaction theory, positioning the field to refine our knowledge of key nucleosynthesis reactions. This workshop will bring together experts in nuclear structure and reaction theory to focus on the interface of state-of-the-art nuclear structure and reaction theory. The key goal is to bring these communities together to target necessary developments for the prediction of processes relevant for nucleosynthesis in medium-mass and heavy nuclei, such as nucleon-capture reactions, electroweak transitions, and nuclear fusion and fission.

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