



Contribution ID: 247

Type: **Oral Contribution**

Few Body Reactions with the Trojan Horse Method

Thursday 27 October 2022 15:00 (35 minutes)

The Trojan Horse method (THM) is a well-established experimental technique to measure nuclear reactions of astrophysical interest avoiding the suppression of the Coulomb barrier affecting experimental direct measurements.

I will describe some of the THM studies involving few-body system of interest for both nuclear physics and nuclear astrophysics, such as the sub-Coulomb proton-proton elastic scattering and the deuteron-deuteron fusion at energies of interest for primordial nucleosynthesis. Moreover, the role of the intercluster motion in nuclei used for THM measurement will be highlight for the discussed physics cases.

Finally, I will highlight new perspectives with the THM applied to few-body systems.

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Session Classification: P9 Few-Body Systems

Track Classification: P9 Few-Body Systems