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Recent Studies of Astrophysical Reactions at the TRIUMF-ISAC Facility

Thursday 19 September 2024 14:35 (25 minutes)

Understanding the origin of the elements, particularly elements heavier than iron, is consistently identified as a major research challenge in nuclear physics. Meeting this challenge demands new approaches to overcome extreme technical difficulties posed by reaction studies, especially those that necessitate the use of radioactive ion beams. In this talk, I will present the recent progress of nuclear astrophysics research with accelerated beams at the TRIUMF-ISAC facility, followed by a discussion of ideas to expand this program into the future. Discussed topics will include the astrophysical p-process, weak r-process and stellar burning in ancient stars, focusing on studies performed using the DRAGON experiment and the recently commissioned joint EMMA-TIGRESS facility.

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