

Advances in Explosive Nuclear Astrophysics

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The talk will explore the interface between the reactions and properties of unstable nuclei relevant for understanding explosive astrophysical phenomena such as X-ray bursters, novae and supernovae. This is a major burgeoning area with the advent of new generation radioactive beam facilities allowing us to address astrophysical observations made using modern telescope systems. In particular the talk will explore the complementary role of fragmentation and ISOL facilities in this field, and also the continued role of novel techniques and with advanced instrumentation at stable beam facilities