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Mass Measurements Along the rp-Process Path

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Abstract. The path and termination point for the rp-process above ^{56}Ni is uncertain due to a lack of knowledge of nuclear properties, especially masses, near the proton drip line. To address this need we have begun a program to measure masses of nuclei along the rp-process pathway in the A~60-80 region using β–γ coincidence spectroscopy. Results for ^{71}Se are presented and a preliminary experiment for ^{72}Br is described.

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