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Search for Rotational Bands at High Excitations in 8Be using the ISOLDE Solenoidal Spectrometer

Tuesday 9 December 2025 12:15 (35 minutes)

The d(7Be, p)8Be* reaction was measured using 5x10^6 p/s, 11 MeV/u, 7Be beam extracted from the HIE-ISOLDE. The ISOLDE Solenoidal Spectrometer (ISS) was used to detect the backward angle emitted protons from high lying states in 8Be. A rich rotational band structure is predicted above 16 MeV in 8Be, by an extension to conjectured particle-hole states of the Cluster Shell Model (CSM) of Della Rocca, Bijker and Iachello. We will review the CSM as well as preliminary analyses and extracted proton excitation spectra of 8Be.

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