

Perspectives and limitations of 2p and 2n knockout reactions

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ABSTRACT

Intermediate energy *direct* reactions that involve the removal of pairs of like-nucleons [1] from rare nuclei offer the opportunity to probe nucleon single-particle structures at both the weakly- and strongly-bound Fermi surfaces of unstable, asymmetric nuclei [2, 3]. This contribution will discuss whether aspects of single nucleon and pair correlations, of many-body wave functions from structure (e.g. modern shell model) calculations, e.g. [4], and/or of effective interactions might be investigated and clarified using such (partially) inclusive direct reaction mechanisms. The insensitivity of reaction predictions to parameters other than structure details will be discussed.

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