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Direct Reactions for Nuclear Spectroscopy

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Several direct reaction mechanisms have emerged as providing valuable and reliable nuclear spectroscopy information that contributes to our understanding of the evolution of shell structure in some of the most exotic light and medium mass nuclei - as are produced at fragmentation facilities. These mechanisms include Coulomb and nuclear dissociation, the fast nucleon removal mechanism, and light-heavy-ion induced transfer (pickup) reactions. Furthermore, if used in combination, these different reaction mechanism sensitivities can prove highly complementary and remove ambiguities. These reactions and their sensitivities will be reviewed through the use of examples of recent applications to studies of very weakly-bound (Ne isotopes) and more well-bound (N~28) neutron-rich systems.

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