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Probing Nuclear Correlations with Direct Reactions

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The evaluation of nuclear matrix elements is one of the cornerstones of the theoretical description of neutrinoless double beta decay rates. Unfortunately, different state-of-the-art structure calculations show very different results when computing them. Nucleon-nucleon pairing correlations are essential ingredient, it is thus important to devise experimental probes sensitive to the relevant correlations, in order to have a tool to assess for the quality of the structure calculations. Within this context, we will thus try to highlight in this talk the role of pairing correlations in multi-nucleon transfer reactions.

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