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Competition between long-range collective and short-range pairing correlations in two-neutron transfer reactions

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In the present work the correlation between long-range collective and short-range pairing correlations in the two-neutron transfer reaction 64Ni(18O,16O)66Ni to the ground and the low-lying states is discussed. For the analysis of the experimental data two microscopic models are used: two-step CCBA and the independent coordinates models. The spectroscopic amplitudes are determined by two structure models: the shell model and the IBM. The results are of upmost importance for the study of neutrinoless double beta decays, as potential mechanisms that compete with it.

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