

Nuclear input with relevance for supernova dynamics and nucleosynthesis

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Modern many-body models, like various versions of the interacting shell model, have allowed to decisively improve the description of weak-interaction processes like electron captures and neutrino-induced reactions on nuclei under supernova conditions. The talk will describe these advances, compare the model predictions with relevant experimental data and show their impact on the supernova dynamics as well as on explosive nucleosynthesis processes; i.e. the nu-p process and the r-process in the neutrino-driven wind scenario.

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