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Direct comparisons of isospin diffusion measurements with transport models at Fermi energies

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This work presents an investigation of isospin equilibration in cross-bombarding $^{48,40}\text{Ca} + ^{48,40}\text{Ca}$ reactions at 35 MeV/nucleon, by comparing experimental data with filtered transport model calculations. In particular, isospin diffusion is studied from the evolution of the isospin transport ratio with centrality. The asymmetry $\delta = (N-Z)/A$ of the quasiprojectile residue is used as an isospin-sensitive observable, while a recent method for impact parameter distribution estimation is used for centrality sorting, proven to be suitable for the whole range of impact parameter.

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