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Recent results from the R3B experiment

Wednesday 15 June 2022 13:00 (30 minutes)

By studying the neutron skin thickness across the Sn isotopic chain, one can gain a rich insight into the slope of the density dependence of the symmetry energy. A novel method using the total neutron-removal cross section (□□N) has been shown to be highly sensitive to the slope, with a 1% change in □□N corresponding to a variation of L=±5 MeV. Experiments that have been performed at GSI at 400<E/A (MeV/nuc)<900 with 120,124,128,132,134Sn projectiles on p and 12C
targets will be discussed in this presentation.

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