Mapping the Nuclear Mass Surface

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Nuclear masses play a central role in nuclear astrophysics, significantly impacting the origin of the elements and observables used to constrain ultradense matter. A variety of techniques are available to meet this need, varying in their emphasis on precision and reach from stability. I will discuss recent advances in nuclear mass measurement techniques that push the frontiers of precision and exoticity, including examples which significantly impact the results and interpretation of astrophysical model calculations.