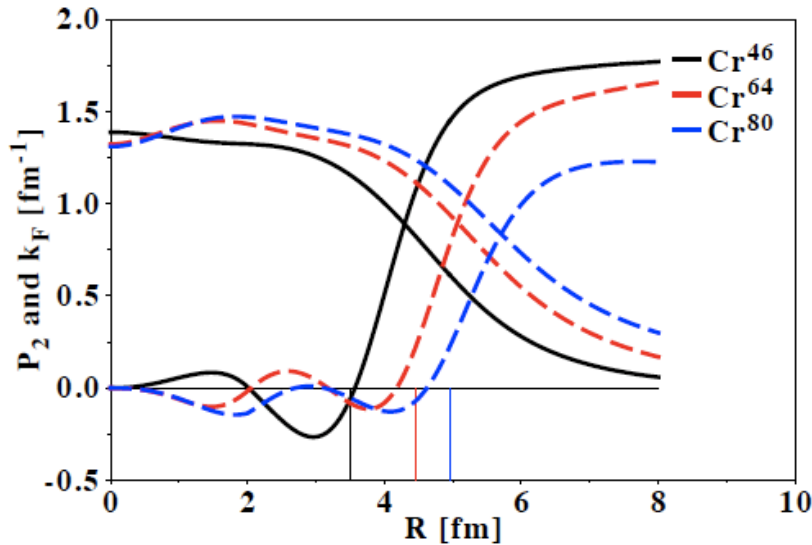


Building the UNEDF from the ground up



The density matrix expansion (DME) is a powerful tool to construct a Universal Nuclear Energy Density Functional (UNEDF) from fundamental nuclear forces.

Previous versions (“NVDME”) gave inaccurate descriptions of spin-orbit properties that are crucial to understand exotic nuclei.

The root of these problems was identified, and a new DME (“PI-DME”) has been developed that is much more accurate.

