

ROCKSTAR: Towards a Roadmap of the Crucial measurements of Key observables in Strangeness reactions for neutron sTARs equation of state

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Deformed charmed hypernuclei

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Charmed Λ_c hypernuclei are investigated in the framework of the deformed Skyrme-Hartree-Fock approach. Their ground-state bulk properties, single-particle energy levels, potential energy curves, as well as the existence limit of charmed hypernuclei are studied, with particular regard to the effects of deformation. $\Lambda_c p$ states are found to be strongly bound, in particular in deformed nuclei.

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