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The Inversion Archipelago at The Neutron Rich Shores

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I will discuss the physical origin of the Islands of Inversion/Deformation which occur at different neutron magic numbers for very neutron rich isotopes and its connection with shape coexistence in doubly magic nuclei. I will present our predictions for a new IoI at $N=50$ which should add to the well known ones at $N=8, 20, 28$ and 40 .

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