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Shape Coexistence Far From Stability

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I shall discuss the meaning of the “nuclear shape” in the laboratory frame proper to the Spherical Shell Model.

Shape coexistence, shape mixing and shape entanglement will be described in relevant physics cases, either neutron rich at the $N=20-28$ and $40-50$ Islands of Inversion, or neutron deficient in the $N=Z=40$ region.

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