

Pairing and deformation in nuclei around the island of inversion

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I discuss the role of pair correlations on the electric quadrupole moments of aluminum isotopes around $N=20$ within the framework of the microscopic particle-vibration coupling model where the pairing and deformation are taken into account. The low-lying vibrational modes in neutron-rich magnesium isotopes are also discussed with paying attention to the pairing and deformation.

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