

Shape coexistence, chirality and octupole collectivity in Cs and Ba nuclei close to the proton drip line

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New results on the strongly deformed proton-rich $A \approx 120$ nuclei obtained from an experiment performed using the JUROGAM 3 + MARA setup will be presented. Evidence of shape coexistence and chiral bands in Cs nuclei, as well as the extent of octupole correlations in Ba nuclei will be discussed. Calculations using particle number conserving cranked shell model and quadrupole-octupole collective hamiltonian based on the relativistic Hartree Bogoliubov model will be presented.