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Coherent Proton–Neutron Contribution to Octupole Correlations in 114Xe studied by inelastic proton and deuteron scattering

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This letter of intent is aiming to investigate the collective nature of low lying Octupole states, in the region of the N=Z 112Ba, by measuring the octupole deformation and the neutron and proton contribution to the octupole excitation by means of the isovector (p,p') and isoscalar (d,d') reactions, in inverse-kinematics, of secondary BigRIPS beams in the target position of the DALI2 - BigRIPS/ZeroDegree setup. The goal is to investigate the nature of the enhanced octupoles located in the vicinity of the N=Z line close to 112Ba and in particular of the 114Xe octupole state, the lightest one with sufficient production yield

Presenter: Mr HUYUK, Tayfun (IFIC - Instituto de Fisica Corpuscular)

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