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Octupole Excitations in U isotopes

The actinide region attracts considerable interest due to the rich variety of octupole phenomena encountered both theoretically and experimentally[1]. These include octupole vibrational bands which, as a function of neutron number an angular momentum, develop into alternating parity bands that have been interpreted as the onset of octupole deformation, or more recently, in terms of refection-asymmetric tidal waves[2]. The most spectacular example of octupole shape may well be the hyperdeformed bands known from fission resonances.

Primary author: Mr NTSHANGASE, Sifiso Senzo (University of Cape Town / iThemba LABS)

Presenter: Mr NTSHANGASE, Sifiso Senzo (University of Cape Town / iThemba LABS)

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