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An examination of the turbulent A = 100 region in light of (recent) experimental results (from ISOLDE)

Wednesday 19 December 2012 17:00 (30 minutes)

It's not just a coincidence that dramatic changes in nuclear deformation occur over just a few nucleons in the middle of a region defined by proton and neutron shell closures. Some of the most sudden and intense shape transitions on the chart occur in the A = 100 region bounded by the Z = 28 and 50 proton closed shells and the N = 50 and
82 neutron closed shells. These rambunctious nuclides have been studied using various experimental and theoretical approaches. This talk will introduce the turbulent, A = 100 region, citing some of the historical literature. (Mostly) recent experimental results, principally - but not exclusively - from ISOLDE, will then be presented.
A special emphasis will be placed on ground-state properties and how they complement the more specific spectroscopic probes.

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