

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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Session Classification: Medium nuclei II