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Nuclei with multiple shape coexistence

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It is now well understood that shape coexistence appears in many regions throughout the nuclear chart. Until very recently, there were only a few candidates suggested for nuclei possessing multiple, i.e., more than two, distinct shapes. Within the past several years, however, this has changed dramatically with detailed spectroscopy revealing structures not previously observed, and results interpreted with shell model or beyond-mean-field calculations. Examples of these candidates, from the light-mass Mg-Si region to the Au-Pg region will be highlighted for discussion.

Presenter: GARRETT, Paul (University of Guelph (CA))

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