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Nuclear forces and spectroscopy

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I will discuss some aspects of nuclear spectroscopy in the relation to the evolution of the structure of exotic nuclei by nuclear forces. There are several distinct components in nuclear forces in nuclei. Among them, the tensor force and the three-body force show visible effects on this evolution, as well as the major part of the central force. The shell evolution is, in fact, widely observed phenomena with many evidences. But it affects strongly the nuclear deformation which is nothing but a Jahn-Teller effect. I will sketch some examples from different angles, together with some basic arguments as to why particular patterns of the evolution are expected to occur. Examples will be discussed by including recent experiments on exotic oxygen, silicone, tin and other heavier nuclei.

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