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Nuclear structure studies close to doubly magic 100Sn nucleus

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Nuclei close to 100Sn are fertile testing ground of modern theories of shell model. However, being very neutron deficient, these nuclei are still experimentally very difficult to access for their investigations (e.g. only information known on 100Sn is the half-life of its ground state). Therefore, understanding about these nuclear systems is from the study of their neighbors, which are relatively more than few nucleons away. With this as background, recently new experimental information in this mass region has been obtained by different research groups. In this talk, I would like to discuss these findings along with some new results obtained by our group.

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