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High-spin isomers in nuclei around the N=82 shell sclosure

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The recent observation of high-spin isomers in Neodymium nuclei around the N=82 shell closure triggered new experimental investigations aiming to the identification of other similar isomers in the neighboring nuclei. The results of lifetime measurements for the 6-qp 20+ isomer in 140-Nd and for the 3-qp isomer above the 19/2+ state in 139-Nd represent a strong support to the cranked Nilsson-Strutinsky calculations. New experiments for the search for high-spin isomeric states in the nuclei around the N=82 shell closure will be discussed.

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