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INVITED LECTURE - Spectroscopic methods for the heaviest nuclei

Tuesday 18 September 2012 08:30 (30 minutes)

A growing number of experiments is currently opening up the transfermium region of nuclei for detailed spectroscopic investigations [1,2]. In the deformed nuclei in the nobelium region this allows an identification and mapping of single particle orbitals closest to the top end of the nuclear chart.

Initial in-beam measurements in the region focussed on α -ray spectroscopy of even-even nuclei (e.g. $^{252,254}\text{No}$).

An overview of the most recent results and the experimental techniques used will be presented and new experiments

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[1] R-D Herzberg, J. Phys. G 30, R123 (2004).

[2] R.-D. Herzberg, P.T. Greenlees, Prog. Part. Nucl. Phys. 61, 674 (2008).

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