## Ernest Grodner

126Cs - first observation of a complete set of chiral gamma selection rules.

## abstract:

Complete set of chiral selection rules has been found in <sup>126</sup>Cs nucleus for the first time confirming qualitative theoretical predictions. Results of DSA lifetime measurements in beam of Warsaw cyclotron will be discussed suggesting strong chiral symmetry breaking and triaxial deformation of 126Cs. It will be shown that gamma selection rules originate from two general features realized in a chiral nucleus: the feature of handedness related to existence of two well separated left- and right-handed states; the structural composition that corresponds to remaining properties of the nucleus – like triaxial deformation, odd particle configuration etc.