Rotational bands in $^{101\text{-}103}$Nb and ^{98,100}Y nuclei and identification of yrast bands in ^{146}La and ^{149}Pr*

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Several gamma transitions in $^{101\text{-}103}$Nb, ^{98,100}Y, ^{146}La, and ^{149}Pr are identified from spontaneous fission studies employing a ^{252}Cf source and the Gammasphere detector array. In particular, the pairing-free bands in ^{100}Y and ^{102}Nb are extended, two rather highly deformed negative-parity bands feeding the 4.3-s beta-decaying isomer of ^{102}Nb are identified, and their possible bandhead configurations are discussed. In the case of ^{101,103}Nb, we have extended previously reported level schemes by over 20 transitions in each nuclide. For the fission partners ^{146}La and ^{149}Pr we have elucidated their previously unreported yrast level schemes.

Footnotes and References

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