

# Bohr Hamiltonian Calculations for the Yb Isotopic Chain

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# Yb Isoptic Chain Analysis

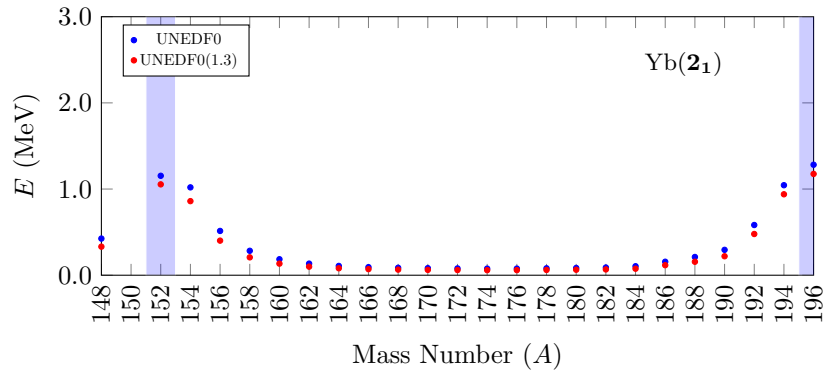


Figure 1: Bohr Hamiltonian calculations for the  $2_1$  states of the Yb isotopic chain with the UNEDF0 functional.

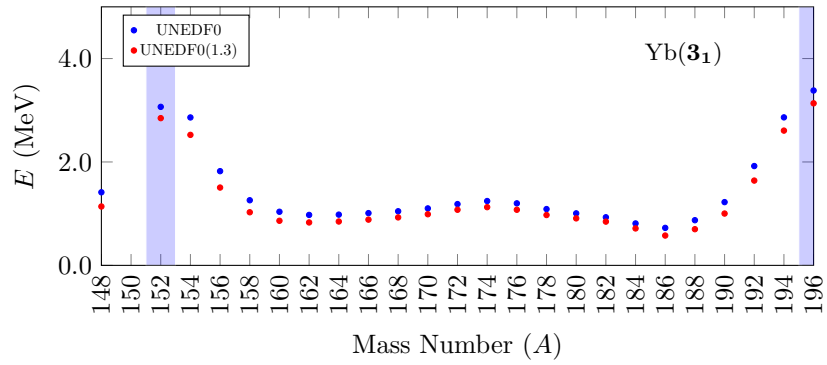


Figure 2: Bohr Hamiltonian calculations for the  $3_1$  states of the Yb isotopic chain with the UNEDF0 functional.

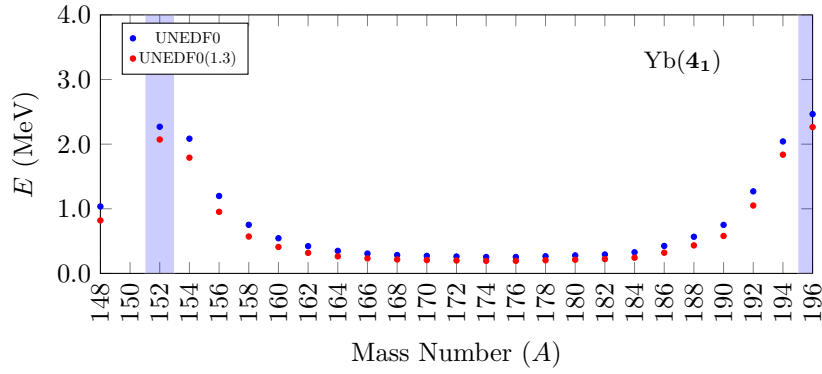


Figure 3: Bohr Hamiltonian calculations for the  $4_1$  states of the Yb isotopic chain with the UNEDF0 functional.

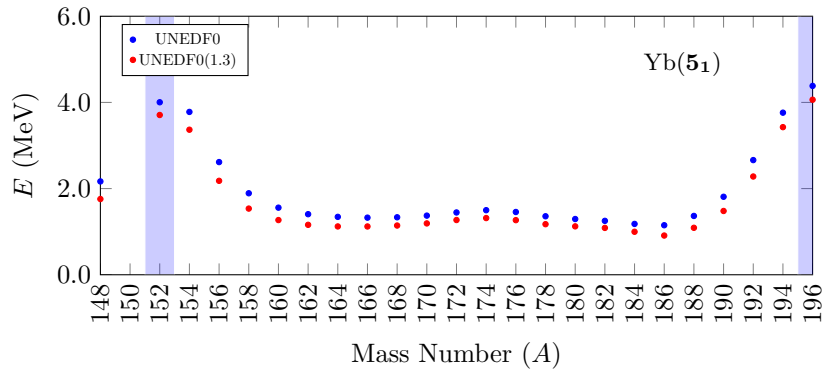


Figure 4: Bohr Hamiltonian calculations for the  $5_1$  states of the Yb isotopic chain with the UNEDF0 functional.

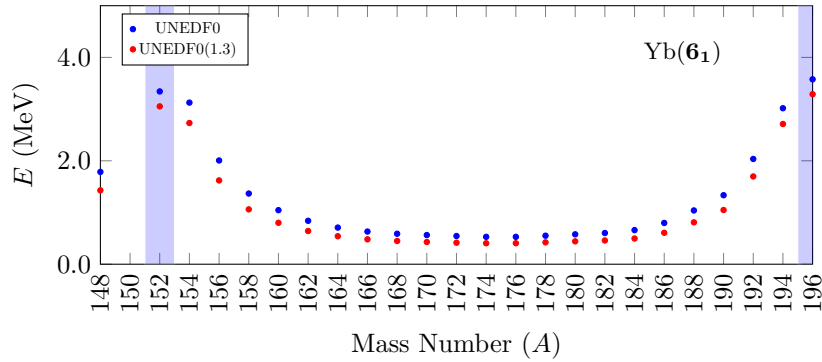


Figure 5: Bohr Hamiltonian calculations for the  $6_1$  states of the Yb isotopic chain with the UNEDF0 functional.

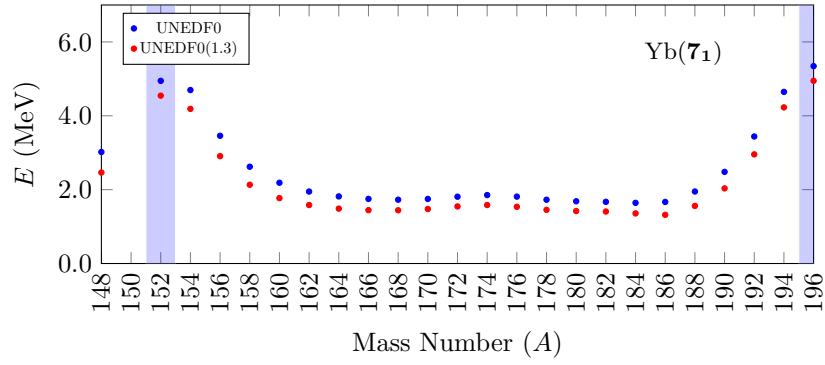


Figure 6: Bohr Hamiltonian calculations for the  $7_1$  states of the Yb isotopic chain with the UNEDF0 functional.

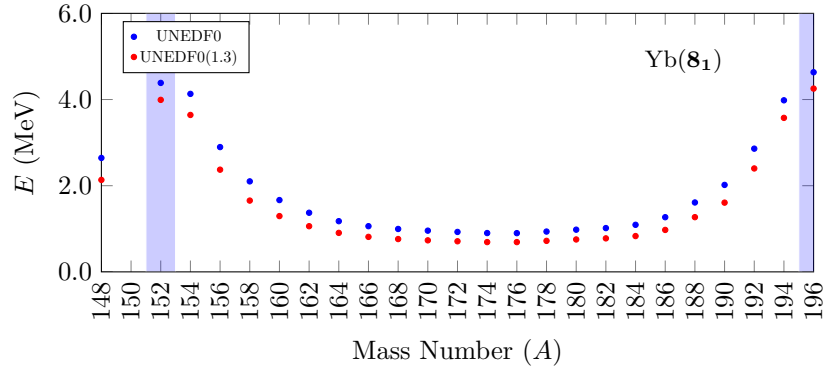


Figure 7: Bohr Hamiltonian calculations for the  $8_1$  states of the Yb isotopic chain with the UNEDF0 functional.

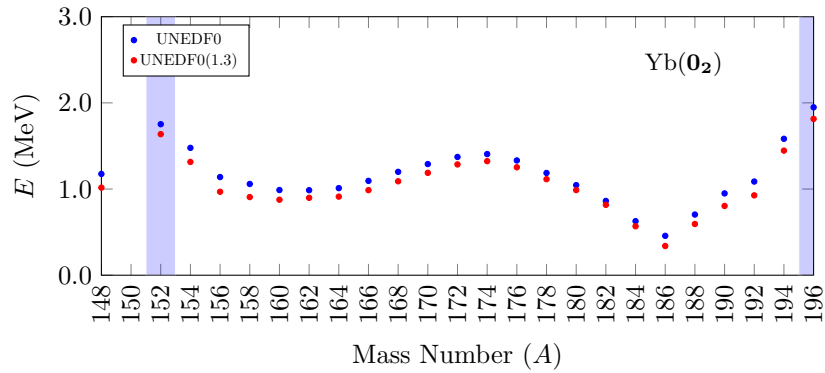
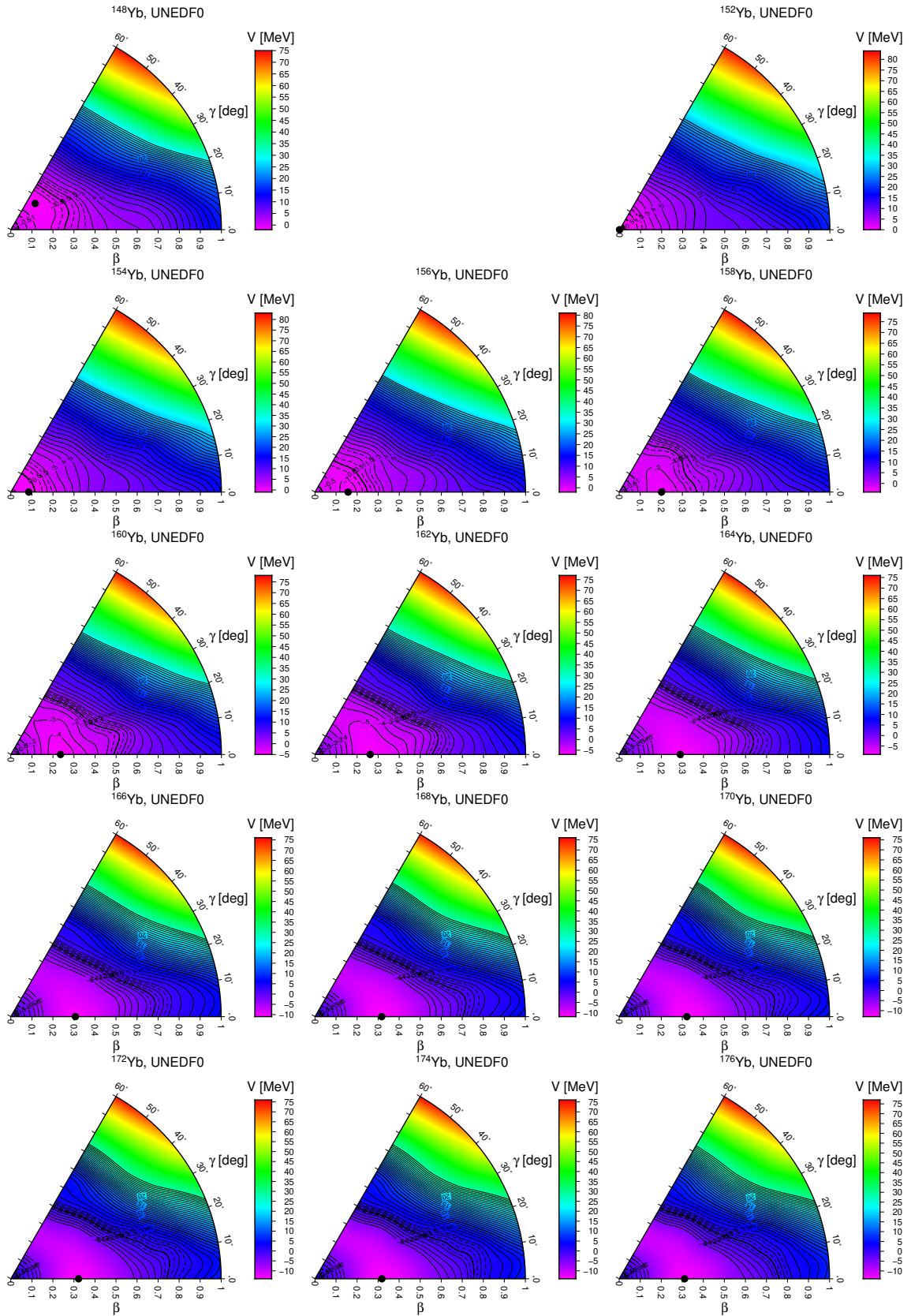


Figure 8: Bohr Hamiltonian calculations for the  $0_2$  states of the Yb isotopic chain with the UNEDF0 functional.



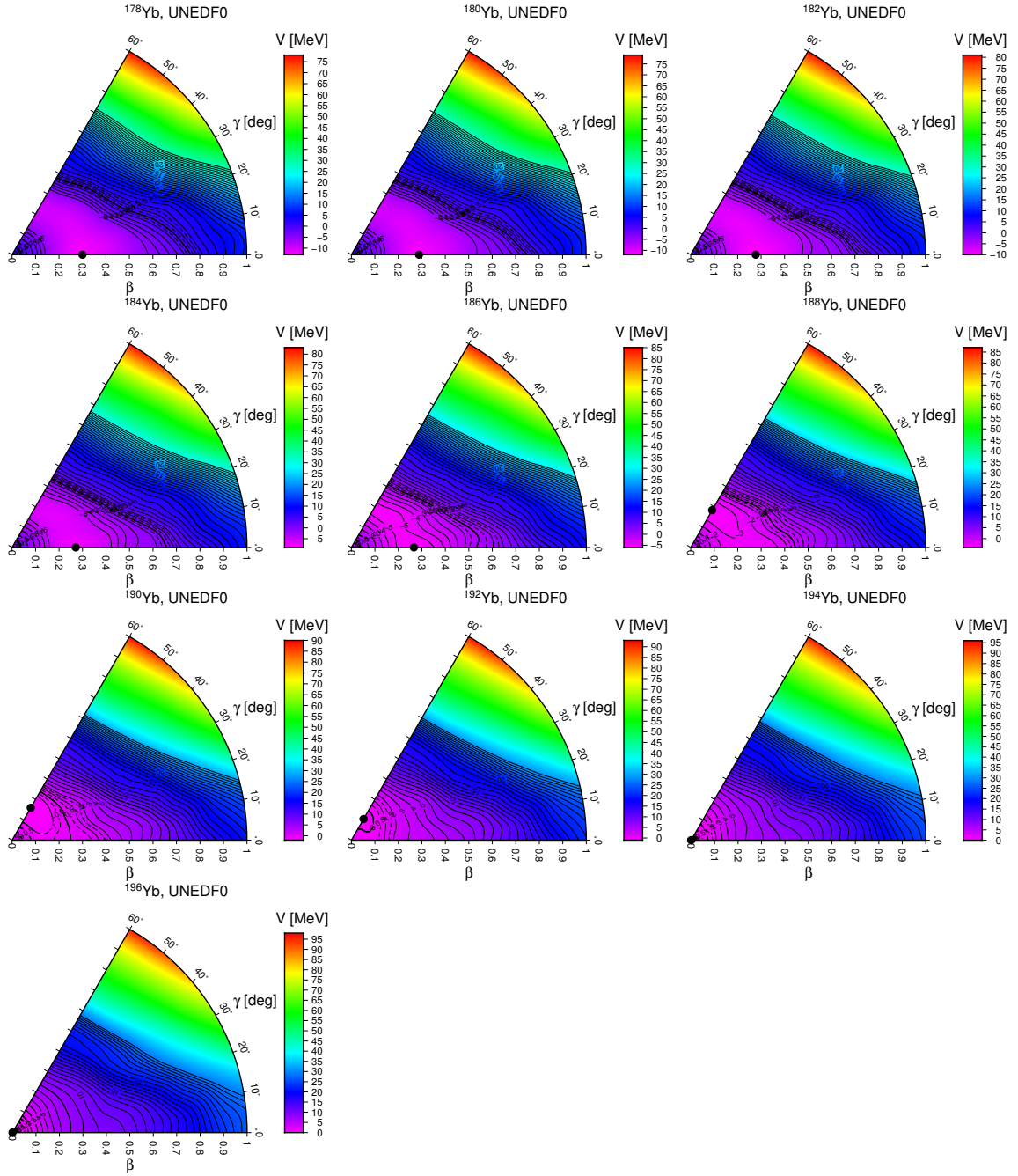


Figure 9: Yb isotopic chain potential energy surfaces.