

Coulomb Excitation of Light Mercury Isotopes at REX-ISOLDE

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In light, even mass Hg isotopes, a weakly deformed oblate ground state band is found to coexist with a more deformed prolate band. To investigate the origin and evolution of shape coexistence in the $N = 102-108$ mid shell region Coulomb excitation measurements of $^{182,184,186,188}\text{Hg}$ were performed at REX-ISOLDE using the MINIBALL detector array. The radioactive Hg beams were provided by ISOLDE and post accelerated by REX, for the first time, to an energy of 2.85 MeV/u and delivered to the target position of MINIBALL. In this presentation preliminary results from the ongoing analysis will be presented.

Summary

Coulomb excitation, Shape coexistence, MINIBALL

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