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Deformation and isospin effects in the beta decay of ^{71}Kr

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Studies of the beta decay of ^{71}Kr cannot be said free of controversy. The first study by Oinonen et al. [1] showed a relatively too small ground state to ground state feeding for a mirror pair and prompted an immediate alternative explanation by Urkedall and Hammamoto [2] calling possible shape effects and isospin breaking in the mirror system. Later a detailed in-beam study [3] restored the earlier interpretation of Oinonen, that since then has prevailed [4]. Recently, new insights have been obtained based on a high-statistics experiment performed at RIKEN Nishina Center. In this talk, I will present these new results from the perspective of deformation and isospin effects in the $A=70$ region.

- [1] M. Oinonen et al., Physical Review C 56, 745 (1997).
- [2] P. Urkedall and I. Hammamoto, Physical Review C 58, R1889 (1998)
- [3] S. Fisher et al., Physical Review C 72, 024321 (2005).
- [4] S. Waniganeththi et al., Physical Review C 106, 044317 (2022).

Co-auteur: COLLABORA(ON, NP1112-RIBF93 experiment

Orateur: ALGORA, Alejandro (IFIC (CSIC-Univ. Valencia), Spain)

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