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Erratum: Two-neutrino double β decay within fully renormalized quasiparticle random-phase approximation: Effect of the restoration of the Ikeda sum rule [Phys. Rev. C **68**, 064310 (2003)] *(3 pages)* . . . . . 059902(E)
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Erratum: Algebraic description of triaxially deformed rotational bands in odd mass nuclei [Phys. Rev. C **73**, 034305 (2006)] *(1 page)* . . . . . 059903(E)
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Publisher's Note: Probing sd-fp cross-shell interactions via terminating configurations in ^{42,43}Sc
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C. J. Chiara, M. Devlin, E. Ideguchi, D. R. LaFosse, F. Lerma, W. Reviol, S. K. Ryu, D. G. Sarantites, O. L. Pechenaya, C. Baktash, A. Galindo-Uribarri, M. P. Carpenter, R. V. F. Janssens, T. Lauritsen, C. J. Lister, P. Reiter, D. Seweryniak, P. Fallon, A. Görgen, A. O. Macchiavelli, D. Rudolph, G. Stoitcheva, and W. E. Ormand

Erratum: Renormalization of the NN interaction with a chiral two-pion exchange potential. II. Noncentral phases [Phys. Rev. C **74**, 064004 (2006)] *(3 pages)* . . . . . 059905(E)
M. Pavón Valderrama and E. Ruiz Arriola