

# Particle number conserving approach to correlations

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Abstract: In the present work the so-called Higher Tamm-Dancoff Approximation method is presented for the generalized case of isovector and isoscalar residual interactions treated simultaneously. The role of different particle-hole excitations and of proton-neutron pairing correlations in the ground state of the self-conjugate  $^{64}\text{Ge}$  nucleus is discussed. © World Scientific Publishing Company.

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