δ-pairing strenghts and nuclear masses

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Abstract

Pairing force plays crucial role in mean-field nuclear calculations. We discuss the state dependent pairing of the δ type the strenghts of which is estimated from nuclear masses of both odd and even nuclei. The masses are calculated with microscopic-macroscopic method, where the macroscopic part is the LSD energy. We use the BCS equations with blocking approximaton in case of odd systems. The gap parameters obtained from calculations are compared to experimental $\Delta^{(3)}$ pairing indicators.