

INTERACTION BETWEEN TWO AXIALLY SYMMETRIC NUCLEI

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A simple expression for the Coulomb interaction potential between two deformed, arbitrarily oriented, and axially symmetric nuclei has been obtained. An accurate approximation for the nuclear contribution to the interaction between those nuclei has been proposed. The complete interaction potential between nuclei with prolate-prolate, prolate-oblate, and oblate-oblate deformations and various orientations has been studied.