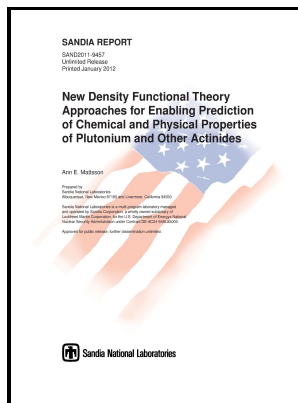


# Nuclear density functional theory

Clarendon Press - Phys. Rev. C 103, 025804 (2021)



Description: -

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Estrus.

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Interactive Adventure

Quantum theory.

Many-body problem.

Density functionals.

Nuclear structure.Nuclear density functional theory

-

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Oxford studies in nuclear physics ;Nuclear density functional theory

Notes: Includes bibliographical references (p. [323]-350) and indexes.

This edition was published in 1991



Filesize: 59.57 MB

Tags: #Phys. #Rev. #C #101, #024315 #(2020)

## [1104.1194] Nuclear Density Functional Theory and the Equation of State

Lithium exhibits nuclear quantum mech.

**Phys. Rev. C 101, 024315 (2020)**

Moreover it can easily incorporate the impact of new data and updates to the uncertainties in existing data. It relates to the properties of one very peculiar isotope of thorium,  $^{229}\text{Th}$ , which has the first excited state at an unusually low energy level of 8.

### Density functional theory

The spread between the OFDFT and the KSDFT energies,  $\sigma$ , is greater for Al than for the other elements although, on a per electron basis, the Al results resemble the others. Pieter Maris has been appointed to the position of Research Associate Professor at Iowa State University effective July 1, 2011. As in electronic systems, there are fundamental and numerical difficulties in using DFT to quantitatively describe the effect of intermolecular interaction on structure, correlations and thermodynamic properties.

### ShieldSquare

The minimization of the grand potential functional in arbitrary local density functions for fixed chemical potential, volume and temperature provides self-consistent thermodynamic equilibrium conditions, in particular, for the local.

### Nuclear density functional theory

Authors:, Abstract: Mutual entrainment effects in cold neutron-proton mixtures are studied in the framework of the self-consistent nuclear energy-density functional theory.

**Phys. Rev. C 101, 024315 (2020)**

Potentially more accurate than the GGA functionals are the meta-GGA functionals, a natural development after the GGA generalized gradient

approximation.

### **ShieldSquare**

These results also help disaggregate error attributable to the local pseudopotential from error attributable to the kinetic energy functional. Specifically, DFT computational methods are applied for synthesis-related systems and processing parameters.

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