

Simple Method Obtaining Analytical Expressions of Particle and Kinetic-Energy Densities for One-Dimensional Confined Fermi Gases

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Abstract: We develop a simple approach to obtain explicitly exact analytical expressions of particle and kinetic-energy densities for noninteracting Fermi gases in one-dimensional harmonic confinement, and in one-dimensional box confinement as well.

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Key words: confined Fermi gases, particle and kinetic-energy densities

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