EQUATION OF STATE OF DENSE NON-ISOTHERMAL PLASMA

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In this work interaction potentials considering Pauli exclusion principle were used [1,2]. Pauli principle prohibits the simultaneous presence of two electrons in the same state, hence taking into account different directions of spin. The influence created by difference between temperatures of electrons and ions was also considered [3]. Thermodynamic properties, including equation of state, were calculated using these potentials and obtained on their basis radial distribution functions (RDFs).

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