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Calculation the energy of four electron system have (Z=10-12)

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Abstract : The aim from this research calculate the total energy and correlation energy of some ions have four as (Ne^{+6} , Na^{+7} and Mg^{+8}) which have ($Z=10-12$) using Hartree - Fock approximation.

Keywords : Hartree-Fock wave function – Hamiltonianoperator correlation energy – four electron system.

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