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Calculation of the electronic structure in the field of a homogeneously charged core of a large radius.

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Calculation of the electronic wavefunctions and energies in the field of a homogeneously charged core of a large radius are reviewed. The Hartree-Fock self-consistent field method is applied for the problem. The model of large core is used for modeling small metal particles. Also the density-functional method is used in conjunction with the Hartree-Fock method. Results are compared with other authors.

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