QassimShamkhi Al-Khafaji et al/International Journal of ChemTech Research, 2016,9(11),pp 426-431.1





International Journal of ChemTech Research CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.9, No.11 pp 426-431,2016

Evaluation of the energy of subshells for Al-atom and some like electronic series

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Abstract:The total energy of subshells(1s,2s,2p,3s and 3p) and some important atomic properties were calculated in this research for systems which have atomic number Z=13-15(Al-atom,Si⁺ and P⁺²ions) using HF wave function, where the effect of increasing the nuclear charge on the studied properties was observed.The resulted data were obtainednumerically using computer program (Mathcad) and these results areevaluated in atomic units. **Keywords :**multi-particles system,Slater determinates,Hartree-Fock approximation, atomic units.

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