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Evaluation of Diamagnetic Susceptibility for B⁺ ion

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ABSTRACT

Configuration Interaction wave functions determined by Weiss in 1961[1] for intra-and inter shell correlation effects of two electron systems have been examined in position space. The required partitioning of the correlated second order density matrix was arrived here, up to and including the pair-correlation effects. Diamagnetic susceptibility was determined within individual electronic shells for B^+ (four electron systems) compared with Be system in their ground state. All results of diamagnetic suscbtability are reported using MathCad program.

Keywords: Theoretical Physics, Boron atom.