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Research Details :

Research Title	: <u><i>A new approach to physical applications of permutation groups</i></u> <u>طريقة جديدة لتطبيقات فيزيائية للمجموعات التبادلية</u>
Descriptipn	: In physical systems there exist three major symmeu-ies, permutation group symmetry of identical particles, p-ipt group symmetry of ions and space group symmetry of crystals. Although a good deal of information is available related to the application of unitary group in physics, but they are restricted by difficult mathematics. Present work focuses on the use of permutation and unitary group techniques in the derivation .of wave functions for a system having two electrons in the valence f-shell. Slater determinantal, permutation and unitary group procedures have been developed to calculate these wave functions. An isomorphism between permutation group and Icosahedral poin- group has been defined. After introducing the crystal field theory, A unitary group approach has been presented for the study of strong Icosahedral crystal fields
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Research Year	: 2001
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