Ab Initio Calculation of $U(BH_4)_4$

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SCF calculations with relativistic core potential and double zeta Gaussian basis set, followed by spin-orbit CI calculations, were carried out on $U(BH_4)_4$. The ground state is found to be E state in double group notation, in agreement with experiments. The low lying f− >f transitions are calculated and results are compared with experiments and ligand field theory assignments.