

ALGEBRAIC DERIVATION
OF THE SPECTRUM OF THE DIRAC
HAMILTONIAN FOR AN ARBITRARY
COMBINATION OF THE LORENTZ-SCALAR
AND LORENTZ-VECTOR COULOMB POTENTIALS

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S u m m a r y

The spectrum of the Dirac Equation is obtained algebraically for an arbitrary combination of the Lorentz-scalar and Lorentz-vector Coulomb potentials using the Witten's superalgebra approach. The result coincides with that known from the explicit solution of the Dirac equation.