

-2mE =00 dr2 dr= K I constant dru or dra or dru Kr ds2 mezu K _ l(P+1) Kzu
122740 S _ 12 d2 x2+ me2 1/2 / 1/ After dividing 1 (1+Du-82 4 constant Athe approximates me2u Tits asymptopic so the 427145K [8 solution will be Omove I to the right $\left|\frac{d^2u}{dS^2} = u\left[\left(1 - \frac{g_0}{g}\right) + \left(\frac{g(g+1)}{g^2}\right)u\right]$ double differential equation

the mes is moving around the TIP w=we noucleus so we find the reduced wess] $m^* = [m_e][m_p]$ $m_e + m_p$ TO Y (r) [we are solving time independent shrodinger equation] W(F) = w(r_t) [time dependent meaning we have to use time coordinate Spin cannot too but won't derive the spin of electron be derived non physical spin W(n) Ir = (ny 2) I spin can be visualised In only space derivative to or coordinate but not space and time coordinate Differential equation d2 = (1-810+2(++1))u TO lim . d2u = (1)u = Ae + Be S Hillrow