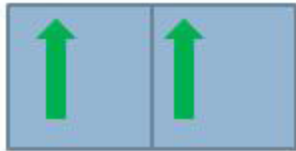


$$\Psi_1 = \psi_A(r_1, r_2) \cdot \chi_S(s_1, s_2)$$



$$\Psi_2 = \psi_S(r_1, r_2) \cdot \chi_A(s_1, s_2)$$

