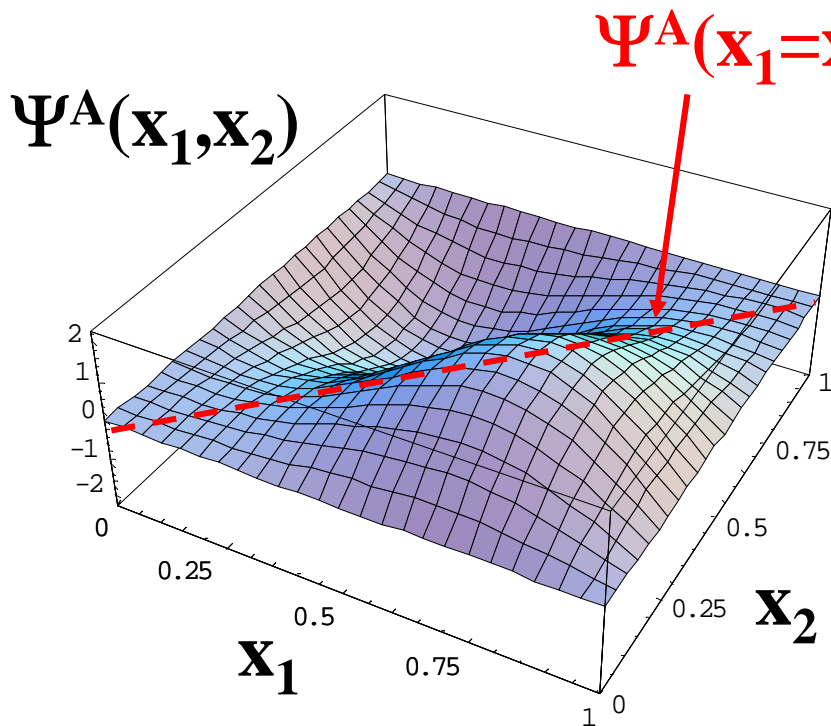
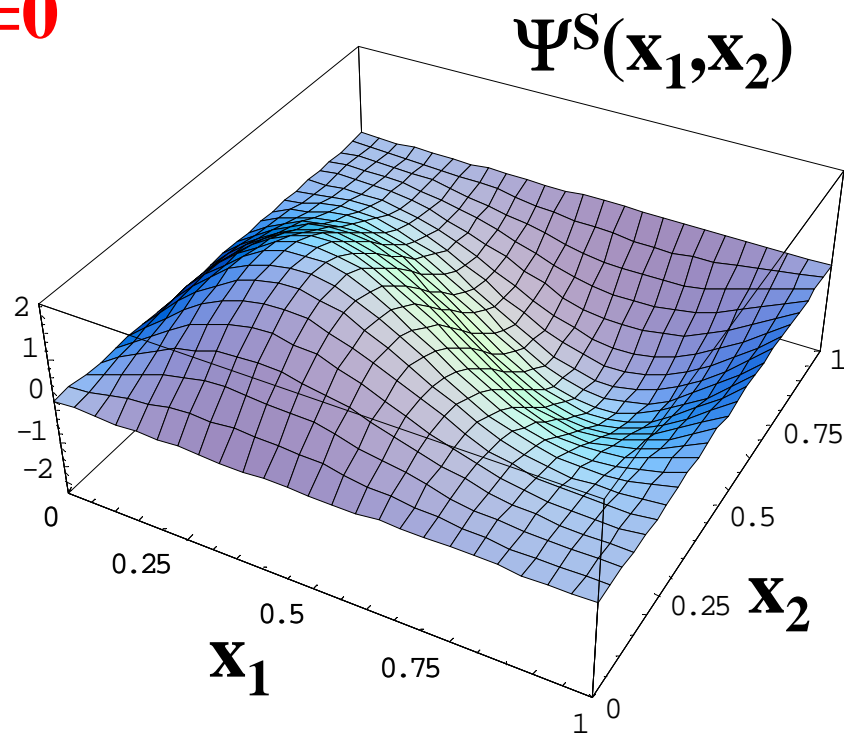


Symmetric and Antisymmetric WFs in the 2-particle Infinite Square Well

$$n_1 = 1, n_2 = 2$$



$|\Psi^A(\mathbf{x}_1, \mathbf{x}_2)|^2$ The particles
tend to stay apart



$|\Psi^S(\mathbf{x}_1, \mathbf{x}_2)|^2$ The particles
have a large probability of
having $\mathbf{x}_1 \sim \mathbf{x}_2$