Ground State Phase • $(S_{tot} = 2, S^z = 0) \otimes (S_{tot} = 1, S^z = 1 \setminus -1)$ • $(S_{tot} = 2, S^z = 0) \otimes (S_{tot} = 2, S^z = 0)$ • $(S_{tot} = 1, S^z = 1 \setminus -1) \otimes (S_{tot} = 2, S^z = 0)$