

The figure displays a 3x3 grid of 9 diagrams, each representing a 2x2 arrangement of vertices. Each vertex is connected to its four neighbors by lines, and the connections are labeled with arrows indicating direction. The diagrams are arranged in a 3x3 grid, with each diagram occupying one of the 9 cells. The arrows at each vertex point in various directions, including horizontally, vertically, and diagonally, representing different configurations of the 3D Ising model.