

The figure displays a 32x32 sparse matrix with a block-diagonal structure. The matrix is symmetric, with non-zero elements (blue diamonds) concentrated along the diagonal and within five distinct blocks. The blocks are located at approximately (0,0) to (31,31), (3,3) to (26,26), (21,21) to (26,26), (19,19) to (20,20), and (15,15) to (16,16). The matrix is plotted on a coordinate system where the x and y axes are labeled 'Element' and range from 0 to 31. The blocks are outlined by black rectangles, indicating their relative positions and sizes within the matrix.