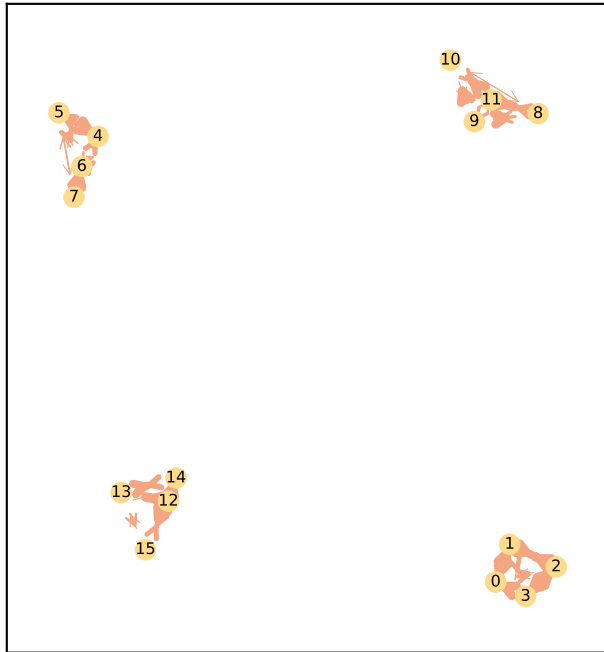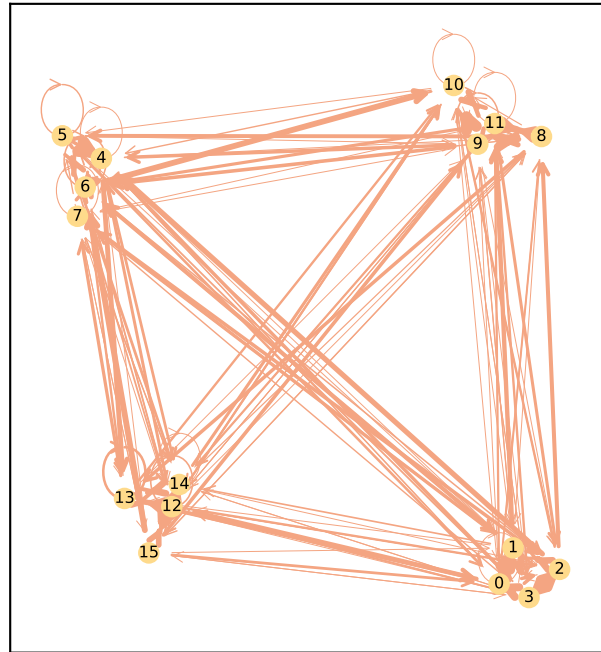Block Diagonal graphic results with different reg terms