

Let K_n be the complete graph on the set of n vertices. A G -design of order n is an edge-disjoint decomposition of K_n into copies of the graph G . The number n is called an admissible order of such a G -design. In this talk, we will show that there exists a 2-colorable $\{C_4, C_k\}$ -design of order n for each $k \geq 3$ and for each admissible order n of a $\{C_4, C_k\}$ -design