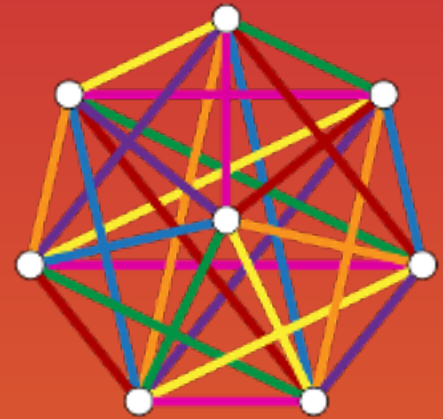


Total Edge Irregular Strength of Complete Graphs

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AS-SMS, Lahore



A total edge irregular k -labelling λ of a graph $G=(V,E)$ is a labelling of vertices V and edges E with labels from the set $\{1, 2, \dots, k\}$ in such a way that for any two different edges 'e' and 'f' the weights are different i.e. $wt(e) \neq wt(f)$. Here the weight of an edge $e=uv$; $v, u \in V$ and $wt(e) = \lambda(u) + \lambda(e) + \lambda(v)$ i.e. sum of labels of vertices u, v and of the edge e . The minimum k for which the graph G has an edge irregular total k -labelling is called the total edge irregularity strength of G i.e. $tes(G)$. In this talk, we will discuss various techniques used to determine the exact value of the total edge irregular strength for complete graph.



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