Shortest Paths in Highly Symmetric Graphs

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The edge betweenness centrality of an edge $e$ in a graph $G$, denoted $B'_G(e)$, measures the frequency at which $e$ appears on a shortest path between two distinct vertices $x$ and $y$. If the values for $B'_G(e)$ over all edges in $G$ are all the same the graph is said to be edge betweenness uniform. We investigate families of graphs that have this highly symmetric property.

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