Characterization of Graphs by a Partition of Edges

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Let $G$ be a graph. A subgraph $H$ of $G$ is called convex, if it contains all shortest paths for pair of vertices in $G$ already in $H$. Suppose $\{F_i\}$ is a partition of $E(G)$ such that each $G - F_i$ is a two-component graph with each component is convex in $G$. The aim of this talk is to characterize graphs containing such partitions.

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