On Shortest Cycle Covers and Circular Flows

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Résumé

A cycle cover of a graph $G$ is a family of cycles of $G$ such that each edge of $G$ is contained in at least one cycle of the family. The length of a cycle cover $C$, is the sum of the lengths (number of edges) of the cycles in $C$. The shortest Cycle Cover Problem (SCCP) is to find a cycle cover of shortest length. In this talk we will survey the known results and present the link between shortest cycle covers and circular flows.