## Canceling Graphs

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#### Abstract

We say that a graph $G$ is canceling if one can red-blue color its edges such that between any two vertices $u, v$, there exists a path between them which uses the same number of red edges as blue edges. In this talk we discuss necessary and sufficient conditions for a graph to be canceling, related results for the analogous problem with more than 2 colors, as well as a number of open problems.


