



# 北京理工大学

## 2025 TALKS IN COMBINATORICS



史永堂，南开大学教授、博导，国家高层次人才计划入选者。主要研究领域是图论与组合优化。曾获国家自然科学基金优秀青年科学基金项目、天津市杰出青年基金项目等资助；霍英东教育基金会青年科学奖二等奖、中国工业与应用数学学会应用数学青年科技奖、中国运筹学会青年科技奖等。

### Some results on Reconfiguration graphs

For any positive integer  $k$ , the reconfiguration graph for all  $k$ -colorings of a graph  $G$ , denoted by  $\mathcal{R}_k(G)$ , is the graph where vertices represent the  $k$ -colorings of  $G$ , and two  $k$ -colorings are joined by an edge if they differ in color on exactly one vertex. As a major problem in the field of reconfigurations for vertex colorings of graphs, the connectivity of  $\mathcal{R}_k(G)$  has attracted widespread interest. In this talk, we will survey recent developments, particularly introducing relevant results on  $P_\ell$ -free graphs, along with some of our recent progress in this area.

2025.1.2 (Thu) 9.50–10.50 am @Tencent: 417-682-574

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