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Fairness and Symmetry in Graph Decompositions

I plan on starting with an introduction of the technique of vertex amalgamations in graphs along with some results that pertain to various notions of fairness in decompositions of complete multipartite graphs. Then, I will review some results that I am familiar with about symmetry in graph decompositions. Finally, I will talk about how vertex amalgamations might be useful for obtaining decompositions of complete multipartite graphs with interesting symmetry properties. A work in progress.