

Garry Bowlin (Binghamton)

Frustrated Gain Graphs and Stanley's Chromatic Symmetric Function

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In traditional gain graph colorings, the coloring set is $G \times [k]$ or $G \times [k] \cup \{0\}$. To generalize this we will use arbitrary sets Q , where G acts on Q . Rather than counting proper colorings, we will count fully frustrated states. I will conclude with some examples and a deletion contraction formula for Stanley's Chromatic Symmetric Function. This talk is based on two articles of Thomas Zaslavsky.

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