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Module Bases for Integer Splines

Abstract for the Combinatorics Seminar 2019 March 5

Let G be a graph with n vertices and positive integer edge weights A . A vertex labeling (g_1, \dots, g_n) is an *integer spline* if for every pair of adjacent vertices $\{i, j\}$ with edge weight a , $g_i = g_j \pmod a$. The set of splines on a given weighted graph (G, A) forms a free module of rank n over the integers. We provide an explicit construction for a particularly nice basis for this module, generalizing work done by undergraduates at Smith College and Bard College.

This is joint work with Jeff Suzuki and Jessica Liu.

From:

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Last update: 2020/01/29 19:03

