

Melissa Fuentes (Binghamton)

Acyclic Orientations of Bipartite Graphs and Their Linear Extensions

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Given an undirected bipartite graph $G=(V,E)$, I consider its acyclic edge orientations (that is, the edges of no cycle are consistently oriented). Each acyclic orientation induces a partial order on V . I will examine which acyclic orientations maximize the number of linear extensions of that partial order. I will prove that two particular orientations of G uniquely maximize the number of extensions.

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