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Alternating $\mathcal{B}$-permutations arising from toric topology

Thursday, 29 August 2024 15:00 (30 minutes)

In this talk, we focus on the rational Betti numbers of real toric manifolds associated with chordal nestohedra. We introduce an explicit description for the Betti numbers using alternating $\mathcal{B}$-permutations for a chordal building set $\mathcal{B}$. We provide detailed computations for interesting cases of chordal nestohedra, including permutohedra, associahedra, stellohedra, Stanley-Pitman polytopes, and Hochschild polytopes.
This is joint work with Suyoung Choi.

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