Contribution ID: **16** Type: **Invited talk**

Toric Colorability of Graphs of Simplicial d-Polytopes with $+4$ vertices

Thursday, 29 August 2024 13:30 (1 hour)

The 1-skeleton of a convex polytope P is called the graph of P.
A graph of a simplicial d-polytope is said to be toric colorable if there is a vertex coloring $\lambda\colon V(G) \to \mathbb{Z}^d$ such that $\{v_1, \ldots, v_d\}$ forms a face of P implies that $\{\lambda(v_1), \ldots, \lambda(v_d)\}$ is unimodular.
In this talk, we discuss the toric colorability of graphs of simplicial d-polytopes with $d+4$ vertices.

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Session Classification: Invited Talk