

Speaker: Olakunle Abawonse (Binghamton)

Title: Homeomorphism Types of the Combinatorial Grassmannian $\text{MacP}(2,n)$ and the Combinatorial Flag Manifold $\text{MacP}(1,2,n)$

Combinatorics Seminar, POSTPONED: new date will be announced

The Grassmannian manifold $G(2,n)$ and flag manifold $G(1, 2,n)$ are known to be homotopy equivalent to their respective combinatorial analogues $\text{MacP}(2,n)$, $\text{MacP}(1,2,n)$, which are simplicial complexes constructed from posets of oriented matroids and flags of oriented matroids. In this talk, I will prove that $G(2,n)$ and $G(1,2,n)$ are actually homeomorphic to these combinatorial analogues.

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