國立中山大學應用數學系
學術演講

講　者：Hsin-Chieh Liao (University of Miami)

講　題：Stembridge codes, Chow rings of the permutahedral varieties, and their extensions

時　間：2024/1/9（Tuesday）4:10 pm ～ 5:00 pm

地　點：理學院四樓理 SC 4009-1 室

Abstract

It is well known that the Eulerian polynomial is the Hilbert series of the cohomology of the permutohedral variety. In this talk, we answer a question of Stembridge on finding a permutation basis for the permutation representation this cohomology carries. Our method involves an $\mathfrak{S}_n$-equivariant bijection between a basis for the Chow ring of the Boolean matroid and codes introduced by Stembridge. There is a parallel binomial Eulerian story related to the stellahedral variety. We also find a permutation basis for the permutation representation on the cohomology of the stellahedral variety. This involves the augmented Chow ring of a matroid introduced by Braden, Huh, Matherne, Proudfoot and Wang. Along the way, we also obtain some new results on augmented Chow rings.
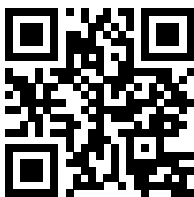
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