

Colloquium

Combinatorial Methods in the Study of Linear Series

主講人：張志偉 博士
國立臺灣大學數學系

時間：114年8月26日(二) 13:30~14:30

地點：應用數學系多媒體教室(理408室)

摘要：

Nearly two decades ago, M. Baker proved the Specialization Lemma, relating the ranks of divisors on algebraic curves to those on graphs via semistable degenerations. This initiated a program to prove results in divisor theory on curves—such as the Brill–Noether theorem—purely by combinatorial means. In the same spirit, G. Farkas, D. Jensen, and S. Payne introduced the notion of tropical linear series on metric graphs, aiming to give combinatorial proofs of results that involve linear series on algebraic curves.

In this talk, we will see that tropical linear series have a deep connection to matroid theory: their local structure and possible parametrizations are determined by matroids. We will then discuss how this matroidal perspective can be used to study tropical linear series further.

