

國立中正大學數學系
暨應用數學碩士班、統計科學碩士班
學 術 演 講

Linear series on tropical curves

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Abstract

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 (=tropical curves), aiming to give combinatorial proofs of results that involve linear series on algebraic curves.

In this talk, after introducing the basic notions, 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.

日 期:114 年 11 月 26 日(星期三) 16:10~17:00

地 點:本校數學館 527 教室(嘉義縣民雄鄉大學路 168 號)

茶 會:15:30~16:00 數學館四樓 409 室舉行

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