Institut für Diskrete Mathematik

Intensive course on Advanced Analytic Combinatorics

Dienstag 11.6., 14:15-16:00 und Dienstag 18.6., 14:15-16:00

Seminarraum AE06, Steyrergasse 30, Erdgeschoss

Advanced methods in analytic combinatorics

Wenjie Fang

(TU Graz)

Analytic combinatorics is the study of asymptotic enumeration of combinatorial objects through analytical aspects of their corresponding generating functions, especially their singularities. In this series of lectures, we will give an introduction to more advanced methods in this domain, such as saddle point method and Mellin transform, which are applicable to some problems that are out of reach for standard methods such as transfer theorems. This introduction will be given in the context of asymptotic enumeration of variants of integer partitions and plane partitions, including recent work of the lecturer in collaboration with Hsien-Kwei Hwang and Mihyun Kang.

Mihyun Kang