

Institut für Diskrete Mathematik

Vortrag im Seminar für Kombinatorik und Optimierung

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Seminarraum AE06, Steyrergasse 30, Erdgeschoss

Tamari-like intervals and planar maps

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Tamari lattice is a partial order defined on objects counted by Catalan numbers, such as binary trees and Dyck paths. It is a well-studied object in combinatorics, with several generalizations. In this talk, we will see how intervals in these Tamari-like lattices are related to planar maps. More precisely, we discovered a bijection between non-separable planar maps and intervals in the generalized Tamari lattice, which naturally extends to a bijection between bridgeless planar maps and intervals in the original Tamari lattice. We will also discuss the consequences of these bijections in enumerative and structural studies of the related objects.

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