

Dustin Cartwright: **Combinatorial tropical surfaces**

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A tropical complex is a Delta-complex, together with some additional integral data. I will talk about tropical surfaces, meaning 2-dimensional tropical complexes, and their combinatorial properties which are analogs of basic results on algebraic surfaces. In particular, on a tropical surface, the Picard group modulo the connected component of zero is finitely generated and has a non-degenerate intersection pairing satisfying a Hodge index theorem.