Abstract:

We say that two partially ordered sets are "doppelgängers" if they happen to have the same number of plane partitions of height $k$, for any $k$. We synthesize M. Haiman's rectification, H. Thomas and A. Yong's minuscule K-theoretic Schubert calculus techniques, and a remark made by R. Proctor to give a framework for combinatorial proofs of such poset coincidences. This is joint work with Zachary Hamaker, Rebecca Patrias, and Oliver Pechenik.