

# On T-unique graphs

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## **Abstract**

A graph is T-unique if any other graph with the same Tutte polynomial is isomorphic to it. Bollobas, Pebody and Riordan conjectured that almost all graphs are T-unique. In contrast, it is likely that almost all matroids are not T-unique because of sparse paving matroids. In this talk, we discuss T-uniqueness of several classes of graphs and matroids including graphs of circumference 5 or 6 and matroids of circumference 4. We use the specialization of the Tutte polynomial at  $y=1$  which is essentially the forest size generator. Joint work with Thomas Perrett, Irene Pivotto and Gordon Royle.