

## Combinatorics and Probability Seminar

*Almost all Steiner triple systems are almost resolvable*

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**Abstract:** An order- $n$  Steiner triple system is a collection of triples on  $n$  elements with the property that every pair of elements is contained in exactly one triple. We show that for any  $n$  divisible by 3, almost all order- $n$  Steiner triple systems admit a decomposition of almost all their triples into disjoint perfect matchings (that is, almost all Steiner triple systems are almost resolvable).

Joint work with Matthew Kwan.

Monday, April 12 at 3:00 PM in Zoom