

# My favourite theorem is the Erdős-Ko-Rado theorem

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## **Abstract**

In this talk I will introduce my favourite theorem, the Erdős-Ko-Rado theorem (also known as the EKR theorem). This theorem describes the size and structure of the largest collections of intersecting subsets from a base set. One of the reasons that I like this theorem is that there are many different proofs that bring together several different types of math. I will outline some of these different approaches in my talk. Another appealing aspect of this theorem is that there are many generalizations and extensions of it that I will describe.