

## Speaker: Matjaz Konvalinka (Ljubljana)

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### Title: The First Bijective Proof of the ASM Theorem

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Alternating sign matrices (ASMs) were introduced by Robbins and Rumsey in the early 1980s. Together with Mills they conjectured an enumerative formula for the number of ASMs of size  $n \times n$ , which was proved independently by Zeilberger and Kuperberg about 10 years later. In this talk, I will present the first bijective proof of this result. A crucial part is played by signed sets and sijections (bijections on signed sets).

This is a joint project with Ilse Fischer.

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