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*Kempe equivalence of edge colourings in (sub)cubic graphs*

Given a graph  $G$  and two edge-colourings  $\phi$  and  $\psi$  of  $G$ , we say that  $\phi$  and  $\psi$  are Kempe equivalent if one can be obtained from the other via a sequence of Kempe changes, i.e., switches of pairs of colours along maximal alternating paths or cycles. In this talk we show that all 4-edge-colourings of a (sub)cubic graph are Kempe equivalent.

Joint work with Bojan Mohar and Diego Scheide.