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ASYMMETRIC COLOURINGS OF GRAPHS WITH BOUNDED MAXIMAL DEGREE

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Call a colouring of a graph G asymmetric, if the only colour preserving automorphism is the identity. A conjecture of Tucker states that if every automorphism of G moves infinitely many vertices, then there is a asymmetric 2-colouring. In this talk, we discuss progress on this conjecture in the case where G has finite maximum degree.