

Unavoidable trees in tournaments

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An oriented tree T on n vertices is unavoidable if every tournament on n vertices contains a copy of T . We obtained a sufficient condition for T to be unavoidable, and use this to prove that almost all labeled oriented trees are unavoidable, verifying a conjecture of Bender and Wormald. We additionally proved that every tournament on $n+o(n)$ vertices contains a copy of every oriented tree T on n vertices with polylogarithmic maximum degree, improving a result of Kühn, Mycroft and Osthus. This is joint work with Richard Mycroft.