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Decomposing cubic graphs into isomorphic linear forests

In 1987 Wormald conjectured that the edges of every cubic graph on $4n$ vertices can be partitioned into two isomorphic linear forests. We prove this conjecture for large connected cubic graphs. Our proof uses probabilistic ideas and the absorption method.

This is joint work with Gal Kronenberg, Shoham Letzter and Alexey Pokrovskiy.