

A proof of the Kotzig–Ringel–Rosa Conjecture

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We describe a proof of the long standing Kotzig–Ringel–Rosa conjecture also known as the graceful labeling conjecture. The proof stems from a functional reformulation of the conjecture and a new composition lemma. We will also discuss how the composition lemma sheds light on a stronger variant of the Kotzig–Ringel–Rosa conjecture.

Keywords: functional directed graphs, graceful labelings, tree decompositions.