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An Identity for Inverse-Conjugate Compositions,
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Abstract

We prove a combinatorial identity between two classes of inverse-conjugate compositions, that is, integer compositions whose conjugates are given by a reversal of their sequences of parts. These are the set of inverse-conjugate compositions of $2n + 3$ without 2's, and the set of inverse-conjugate compositions of $2n - 1$ with parts not exceeding 3. Both sets are enumerated by $2F_n$, where F_n is the n th Fibonacci number.