

A Dynamical Aspect of Symbolic Summation

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Symbolic Summation aims in developing symbolic algorithms for evaluating and manipulating sums in combinatorics. In this talk, we will present some dynamical results related to some classical algorithms in Symbolic Summation. We will classify all of possible hypergeometric terms that are stable under the application of Gosper's algorithm and prove that P-recursive sequences are eventually stable under the iterated summation.