Representations of Integers as Quotients of Sums of Distinct Powers of Three

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Abstract: We will discuss the question of which integers can be written as quotients of sums of distinct powers of three. The motivation for this question includes a connection to the Cantor middle third set and Newman polynomials (polynomials with coefficients 0 and 1, and constant term 1). We introduce a necessary and almost sufficient condition for an integer to have such a representation, give an algorithm that generates representations for given integers meeting the condition, and present early results towards categorizing such representations. This is joint work with Katie Anders, Madeline Locus Dawsey, and Bruce Reznick.

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