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Title: An upper bound for the number of solutions of ternary purely exponential Diophantine equations II

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Let a, b, c be fixed pairwise coprime positive integers with $\min\{a, b, c\} > 1$. In this paper, by analyzing the gap rule for solutions of the ternary purely exponential Diophantine equation $a^x + b^y = c^z$, we prove that if $\max\{a, b, c\} \geq 10^{62}$, then the equation has at most two positive integer solutions (x, y, z) .

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