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On the Counting Function of Triples Whose Pairwise Products Are Close to Fibonacci Numbers,

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Abstract

For a positive real number x let the Fibonacci distance $\|x\|_F$ be the distance from x to the closest Fibonacci number. We let

$$f(x) = \#\{(a, b, c) \in \mathbb{Z}^3 : a > b > c \geq 1, \max\{\|ab\|_F, \|ac\|_F, \|bc\|_F\} \leq x\}$$

and study the function $f(x)$.