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The Generalized Hyers--Ulam--Rassias Stability of a Cubic Functional Equation

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Abstract: In this paper, we obtain the general solution and the generalized Hyers--Ulam--Rassias stability for a cubic functional equation $f(mx+y)+f(mx-y)=mf(x+y)+mf(x-y)+2(m^3-m)f(x)$ for a positive integer $m \geq 1$.

Key Words: Hyers--Ulam--Rassias stability, Quadratic function, Cubic function