

# Turkish Journal of Mathematics

Turkish Journal

of

Mathematics

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

Abbas NAJATI



Faculty of Sciences,

Department of Mathematics,

Mohaghegh Ardebili University

Ardebil, Islamic Republic of IRAN

e-mail: a.nejati@yahoo.com

 [Keywords](#)  
 [Authors](#)

**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



[math@tubitak.gov.tr](mailto:math@tubitak.gov.tr)

[Scientific Journals Home Page](#)

Turk. J. Math., **31**, (2007), 395-408.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Math., vol.31, iss.4.](#)