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Title: The stability of a general quadratic functional equation in distributions

Author(s): Young-Su Lee and Soon-Yeong Chung

Making use of the fundamental solution of the heat equation we reformulate and prove the stability of a general quadratic functional equation with n-independent variables in the space of tempered distributions. Moreover, using the Dirac sequence of regularizing functions we extend this result to the space of distribution.

## Address:

Young-Su Lee Department of Mathematical Sciences Korea Advanced Institute of Science and Technology Daejeon, 305-701 Republic of Korea

## Address:

Soon-Yeong Chung Department of Mathematics and Program of Integrated Biotechnology Sogang University Seoul, 121-741 Republic of Korea