Year: 2016
 Vol.: 88
 Fasc.: 1-2

Title: A generalization of Gajda's equation on commutative topological groups

Author(s): Żywilla Fechner and László Székelyhidi

In the present paper we deal with the following generalization of the sine-cosine equation

$$\int [f_1(x+y-t) + f_2(x-y+t)]d\mu(t) = g(x)h(y)$$

for complex valued functions f_1 , f_2 , g and h defined on a commutative topological group G, where μ is a complex measure defined on G.

Address:

Żywilla Fechner Institute of Mathematical Finance Ulm University Helmholtzstraße 18, 89081 Ulm Germany

Address: László Széklyhidi Institute of Mathematics University of Debrecen 4010 Debrecen P.O. Box 12 Hungary and Department of Mathematics University of Botswana 4775 Notwane Rd. Gaborone Botswana