

Year: 2011

Vol.: 78

Fasc.: 3-4

**Title:** On measurable solutions of a general functional equation on topological groups

**Author(s):** Tomasz Kochanek and Michał Lewicki

We establish a theorem of the type “measurability implies continuity” for solutions  $f$  of the functional equation

$$\Gamma(f(x), f(y)) = \Phi(x, y, f(\alpha_1 x + \beta_1 y), \dots, f(\alpha_n x + \beta_n y))$$

under reasonable conditions upon the integers  $\alpha_i, \beta_i$  and the mappings  $\Gamma, \Phi$ .

**Address:**

Tomasz Kochanek  
Institute of Mathematics  
University of Silesia  
Bankowa 14  
40-007 Katowice  
Poland

**Address:**

Michał Lewicki  
Institute of Mathematics  
University of Silesia  
Bankowa 14  
40-007 Katowice  
Poland