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

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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 α_i, β_i and the mappings Γ, Φ .

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