

## Correction to paper "Integral representation for even positive definite functions"

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Professor A. Edward Nussbaum has kindly drawn our attention to a mistake in our paper with the above title, which appeared in *Ann. Polon. Math.* 16 (1965), pp. 267-283. On page 278, line 11 from the top and on page 279 line 8 from the bottom, it is falsely stated that

$$K(x, y)|_{y_2=x_2=x_2^0} = 2f(x_1 + y_1, 0) + 2f(x_1 - y_1, 0).$$

The correct form should be:

$$K(x, y)|_{y_2=x_2=x_2^0} = f(x_1 + y_1, 2x_2^0) + f(x_1 - y_1, 2x_2^0) + f(x_1 + y_1, 0) + f(x_1 - y_1, 0).$$

This change affects the statement of Theorem 1. In the case of two variables, the new statement is:

*Let  $f(x_1, x_2)$  be a continuous even positive definite (e. p. d.) function and assume that the e. p. d. functions  $f(x_1, x_2^0) + f(x_1, 0)$ ,  $f(x_1^0, x_2) + f(0, x_2)$  (of one variable) have a unique integral representation for every fixed  $x_2^0, x_1^0$ . Then  $f(x_1, x_2)$  has a unique integral representation of the form (2'), where  $d_\sigma(t)$  is even and  $\int_{\mathbb{R}} |e^{itx}| d_\sigma(t) < \infty$  for all  $x$ .*

The corollary to Theorem 1 now becomes:

*If  $f(x_1, x_2)$  is an e. p. d. function satisfying*

$$f(x_1, x_2^0) = O(\exp(ax_1^2)), \quad f(x_1^0, x_2) = O(\exp(ax_2^2))$$

*for any  $x_2^0, x_1^0$  where  $a$  is a constant (depending on  $x_2^0, x_1^0$ ), then  $f(x_1, x_2)$  satisfies (3) (with another  $a$ ).*

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