## Erratum

## **Monotone Decrease of Characteristic Functions**

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The hypotheses of the theorem in my paper<sup>(1)</sup> are incorrectly stated. I thank Mark Pinsky for pointing this out to me.

Let  $\rho$  denote the probability measure associated with the *n*-dimensional distribution function F(x); i.e., for any Borel set  $A \subseteq \mathbb{R}^n$ , we define

$$\rho(A) = \int_A dF(x)$$

Then hypotheses (1a) and (1b) should read as follows:

$$\rho$$
 is symmetric (1a)

$$\infty > \int (t \cdot x)^2 dF(x) > 0, \quad \text{all } t \in \mathbb{R}^n, \quad t \neq 0$$
 (1b)

Hypothesis (1a) implies that the characteristic function  $f(t) = \int \exp(it \cdot x) dF(x)$ ,  $t \in \mathbb{R}^n$ , is real-valued.<sup>(2)</sup> Also, in order to avoid any confusion, the last sentence in the theorem should read as follows: "Thus, in a suitable neighborhood of the origin, f is monotonically decreasing along rays starting at the origin."

## REFERENCES

- 1. R. S. Ellis, J. Stat. Phys. 16:117 (1977).
- 2. K. L. Chung, *A Course in Probability Theory* (Harcourt, Brace, and World, New York, 1968), p. 145.

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