ERRATUM TO "A SIMPLE PROOF OF RADÓ'S THEOREM"

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I am indebted to Professor Pentti Järvi of the University of Helsinki, Helsinki, Finland, for pointing out to me that my paper *A Simple Proof of Radó's Theorem* (Proc. Amer. Math. Soc. **85** (1982), 673–674) is in error. Indeed, my procedure, if correct, would prove that a continuous real-valued function, harmonic where it is not zero, is everywhere harmonic; this is not the case, as the simple example $f(x, y) = |x|$ shows. My error is in my failure to justify the interchange of summation and integration in the equation at the bottom of page 673; although $u \cdot \Delta\mu = \sum_i u \cdot \Delta(e_i\mu)$, there seems to be no easy way to conclude that the integrals of the summands form a series which converges to the integral $\iint_M u \cdot \Delta\mu \, dx \, dy$. Although the collection of functions $\{e_i\mu\}$ is bounded, the collection $\{\Delta(e_i\mu)\}$ in general is not, and thus no standard interchange theorem can be applied—even though the equation at the bottom of page 673 is true, as we know from (other proofs of) Radó's theorem.

I regret the error.

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