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Kátai, Imre (H-EOTVO-AG)
Square-free values of the Carmichael function. (English summary)
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In this short note the author gives a very clever proof of a recent result of F. Pappalardi, I. E. Shparlinski, and the reviewer [J. Number Theory **103** (2003), no. 1, 122–131; MR2008070 (2004i:11115)] concerning the density of square-free values of the Carmichael function. Instead of using the well-known Wirsing theorem [E. Wirsing, Math. Ann. **143** (1961), 75–102; MR0131389 (24 #A1241)], the author employs a more general theorem of B. V. Levin and A. S. Faĭnleĭb [Uspehi Mat. Nauk **22** (1967), no. 3 (135), 119–197; MR0229600 (37 #5174)] in order to obtain an asymptotic formula with an explicit error term. The author verifies the applicability of the general theorem to this particular situation by making a simple use of the Siegel-Walfisz theorem.

Reviewed by *Filip Saidak*