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**R. J. Swift\*** (rjswift@cpp.edu), Department of Mathematics and Statistics, Cal Poly Pomona, Pomona, CA 91768. *Solids of Revolution and the Herschel-Maxwell Theorem.*

A characterization of a continuous nonnegative function  $f$  that is radially symmetric is obtained. The motivation of the problem arises from an elementary consideration of solids of revolution with the Herschel-Maxwell Theorem for the multivariate normal distribution the consequence. (Received August 30, 2020)