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John P Nolan* (jpnolan@american.edu). *Zolotarev type integral representations for multivariate stable laws.*

The lack of explicit formula for univariate and multivariate distribution functions and densities for stable distributions make them difficult to use in practice. We describe polar formulas for these quantities using a new family of special functions. Zolotarev type integrals are given and programs to compute these functions for low dimensions. (Received September 17, 2013)