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Bruce R. Fabijonas* (bfabi@smu.edu), Department of Mathematics, Southern Methodist University, PO Box 750156, Dallas, TX 75275-0156, and **Mogens V. Melander**, Department of Mathematics, Southern Methodist University, PO Box 750156, Dallas, TX 75275-0156. *A class of probability distribution functions relevant to turbulence.*

We discuss a class of probability distribution functions (pdfs) defined by their Mellin transform. We briefly describe how the class of pdfs arise from turbulence statistics. Then we outline an algorithm for computing these pdfs. In particular, we verify that our implementation of the algorithm indeed returns the correct values. (Received February 09, 2006)