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**Rick Vitale\*** ([r.vitale@uconn.edu](mailto:r.vitale@uconn.edu)), Department of Statistics, U-4120, University of Connecticut, Storrs, CT 06269. *Continuity of intrinsic volumes with respect to the  $L_1$  metric*. Preliminary report.

Intrinsic volumes of convex bodies (equivalently, quermassintegrals) are well known to be continuous with respect to the Hausdorff metric. Here we show that continuity holds as well with respect to the  $L_1$  metric. More specifically, we show a local Lipschitz property analogous to that given by Groemer(1996) in the case of the Hausdorff metric. (Received February 15, 2006)