

1042-52-85

**Rick Vitale\*** ([metric88-ams@yahoo.com](mailto:metric88-ams@yahoo.com)), Department of Statistics, University of Connecticut, Storrs, CT. *Zonoids, intrinsic volumes, and multivariate medians*. Preliminary report.

The traditional notion of a median for a one-dimensional data set has higher-dimensional analogues known as *multivariate*, or *spatial, medians*. We present a zonoidal construction that leads to a class of multivariate medians. Among them are the well-known  $L_1$  and Oja medians. (Received August 12, 2008)