Near-consistent robust estimations of moments for unimodal distributions

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orderliness | invariant | unimodal | adaptive estimation | U-statistics

A. Congruent distribution. In the realm of nonparametric statistics, the relative differences, or orders, of robust estimators are of primary importance. Based on this principle, as the parameters of the underlying distribution vary, all reasonable nonparametric location estimates should asymptotically change in the same direction.

Data Availability. Data for Table **??** are given in SI Dataset S1. All codes are attached.