## 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
- 2 statistics, the relative differences, or orders, of robust esti-
- mators are of primary importance. Based on this principle, in
- 4 the absence of contamination, as the parameters of the under-
- $_{5}$  lying distribution vary, all reasonable nonparametric location
- $_{6}$  estimates should asymptotically change in the same direction.
- 7 Data Availability. Data for Table ?? are given in SI Dataset S1.
- 8 All codes are attached.
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