

Semiparametric robust mean estimations based on the orderliness of quantile averages

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semiparametric | mean-median-mode inequality | asymptotic | unimodal
| Hodges–Lehmann estimator

1 **Inequalities related to weighted averages**

2 So far, it seems plausible that the bias of a reasonable weighted
3 average should be related to its degree of robustness under
4 certain semiparametric assumptions, since it is a linear combi-
5 nation of quantile averages.

6 **Data Availability.** Data for Figure ?? are given in SI Dataset
7 S1. All codes have been deposited in [GitHub](#).

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DRAFT