

# 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 appears clear that the bias of a reasonable robust  
3 estimator is closely related to its degree of robustness.

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

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DRAFT