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

Proof. □

Inequalities related to weighted averages

So far, it is quite natural to hypothesize that the value of ϵ,γ-trimmed mean should monotonically decrease as the ϵ increases in a right-skewed semiparametric distribution, since $\mathrm{TM}_{\epsilon,\gamma}$ is a linear combination of quantile averages as shown in Section **??**.

Data Availability. Data for Figure **??** are given in SI Dataset S1. All codes have been deposited in GitHub.

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