

SCED Special Issue - Analysis with $\rho_M = 0.3$, $\rho_Y = 0.3$, $\text{prop_indir_dir} = 0.5$

Benedikt Langenberg

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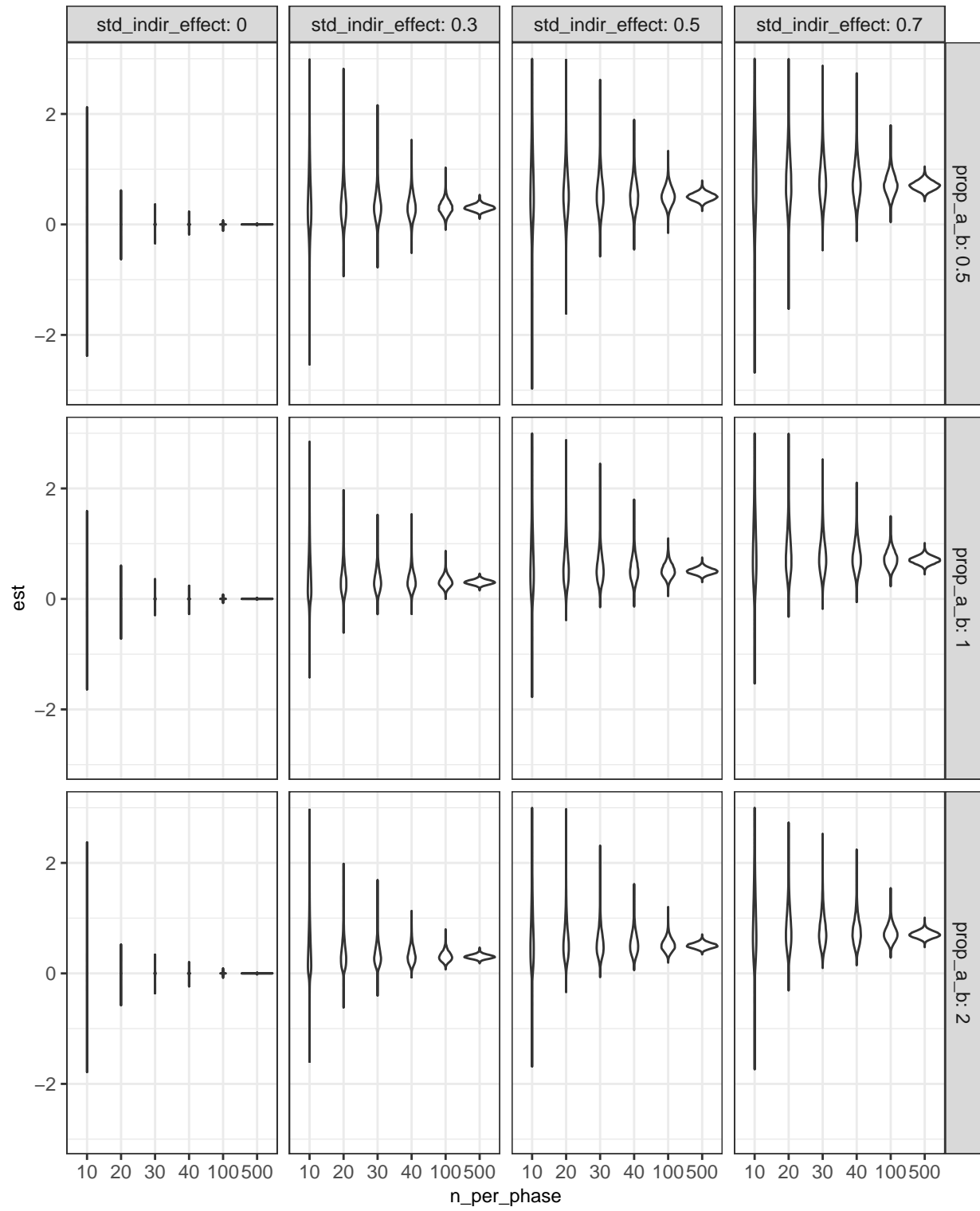
1 Conditions

- measurements per phase: 10, 20, 30, 40, 100, 500
- standardized indirect effect (ab/σ_Y): 0, 0.3, 0.5, 0.7
- proportion of indirect and direct effect: (ab/c'): 0.2, 0.5, 0.8
- proportion of a and b (a/b): 0.5
- autocorrelation of Y (ρ_Y): 0.3
- autocorrelation of M (ρ_M): 0.3

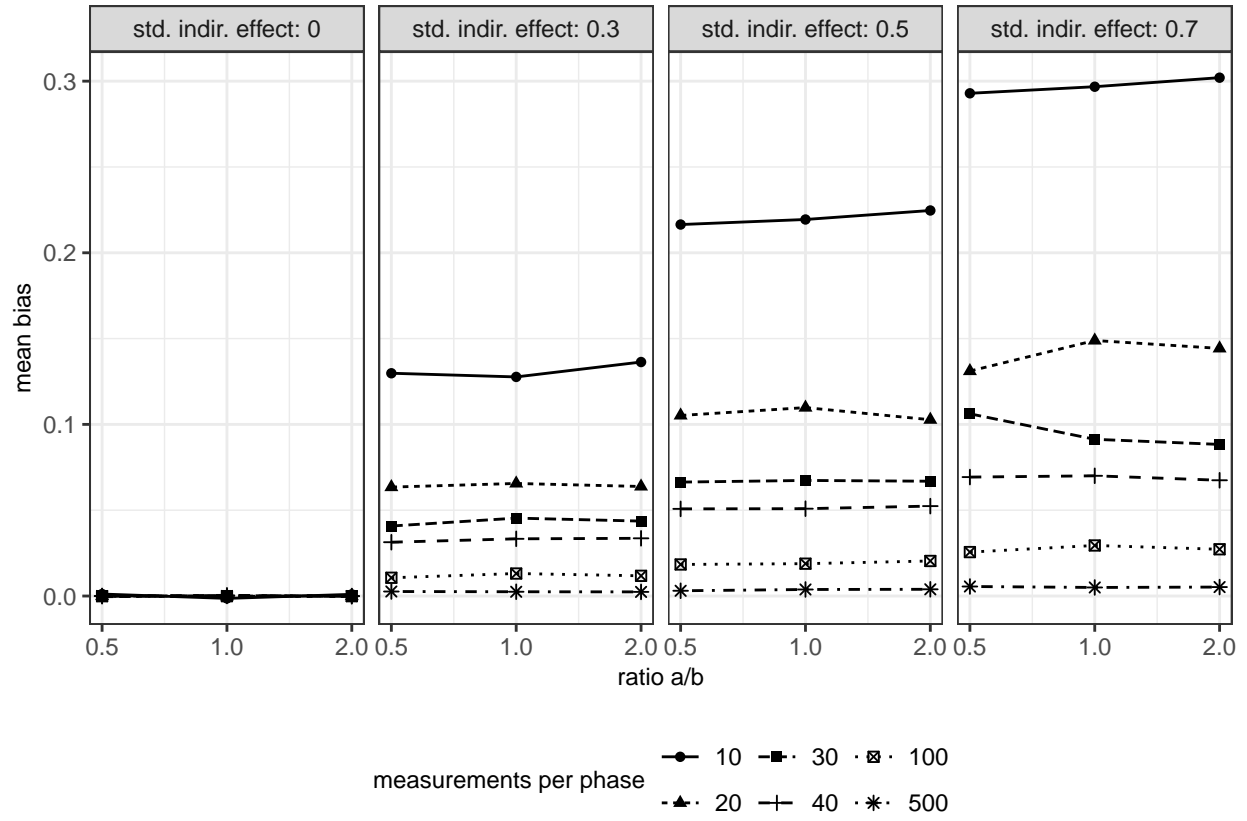
2 Dependent variable

- Standardized Indirect Effect: ab/σ_Y

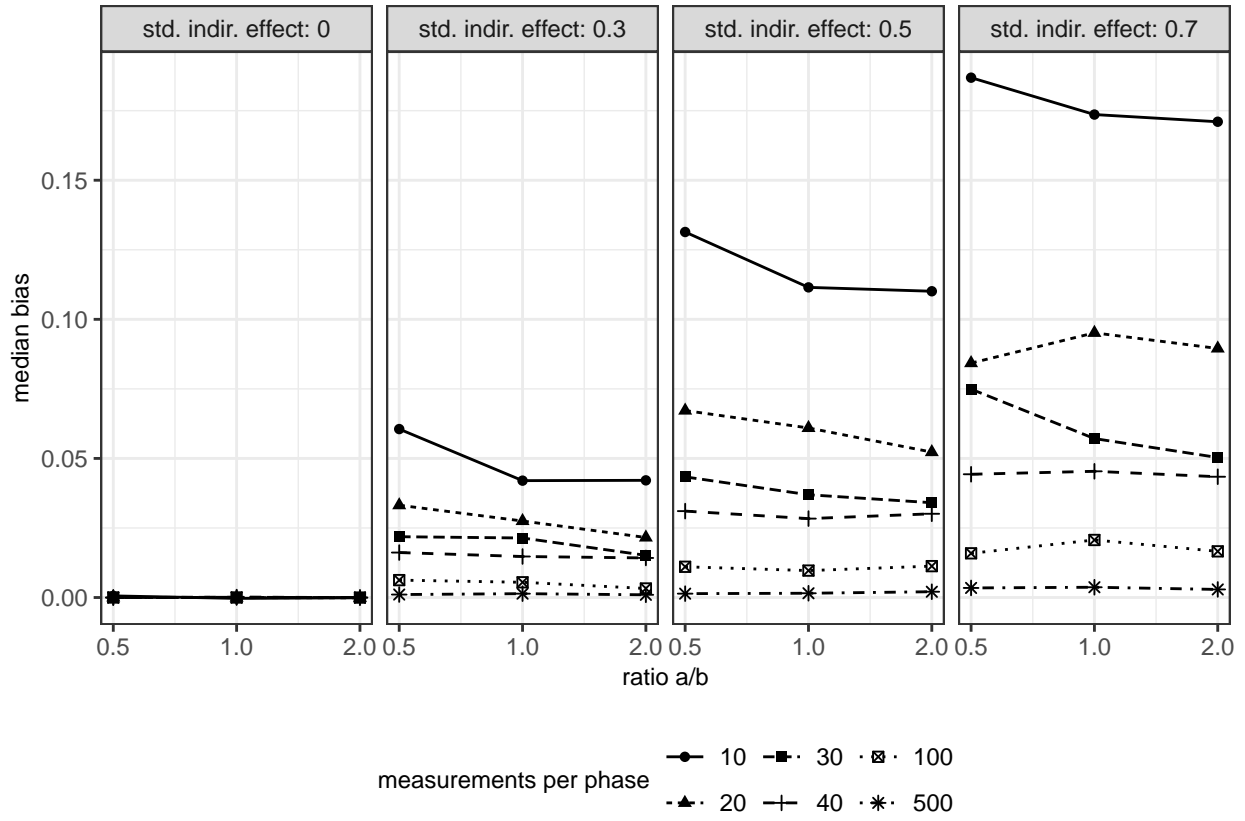
3 Violin plot



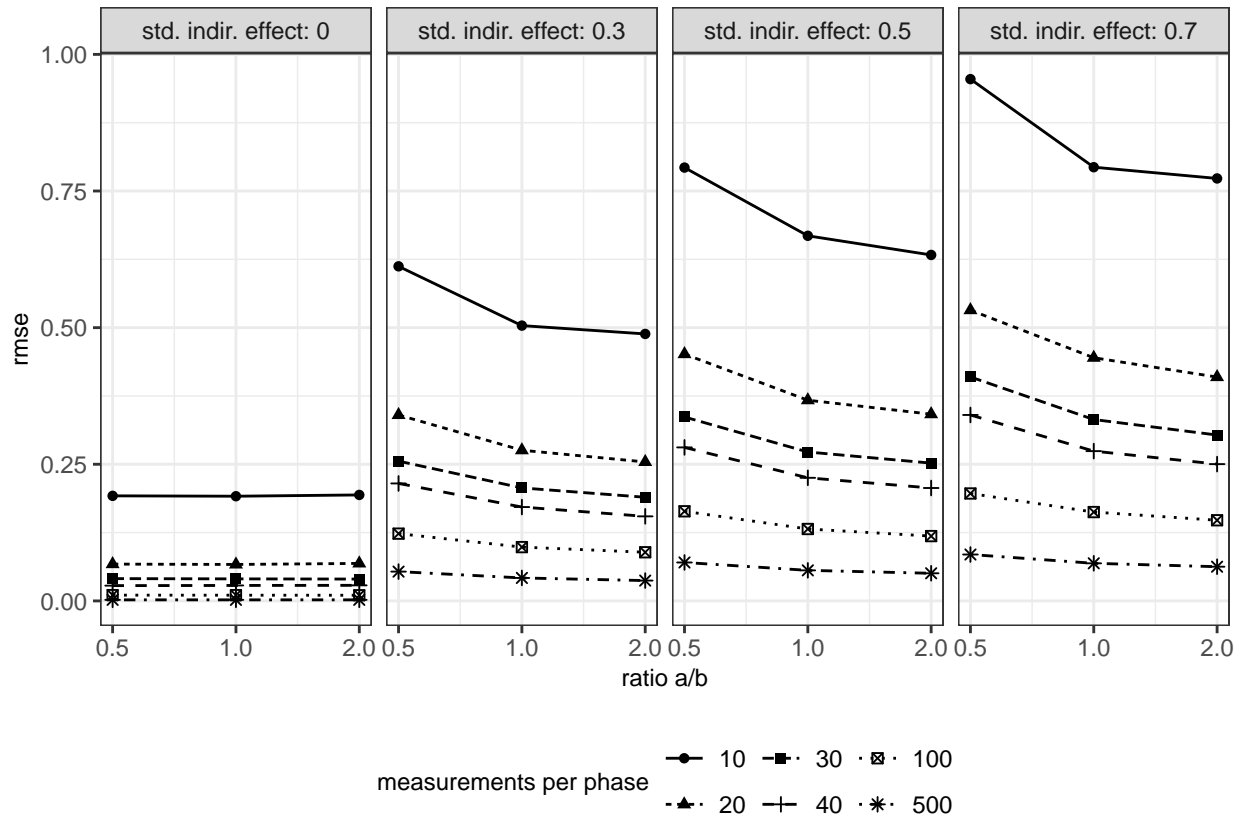
4 Bias: Mean deviation from true value



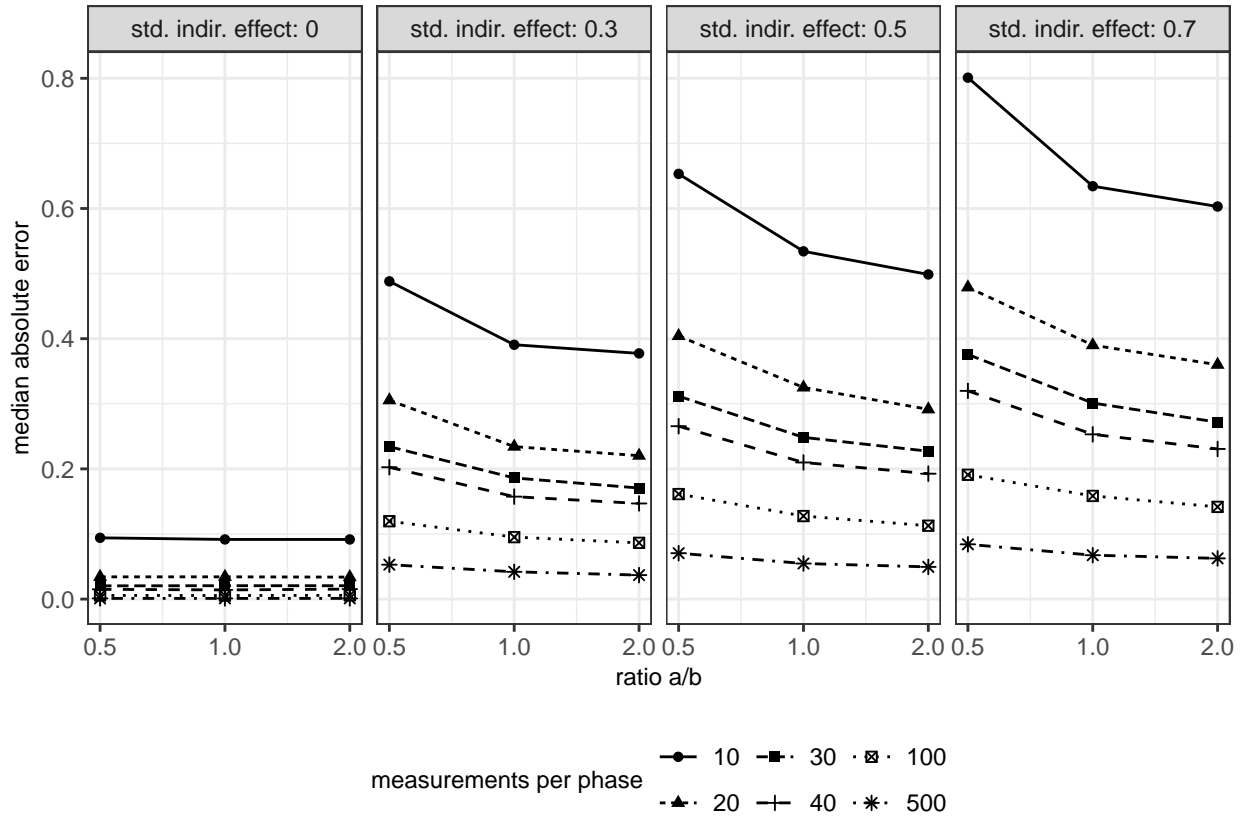
5 Bias: Median deviation from true value



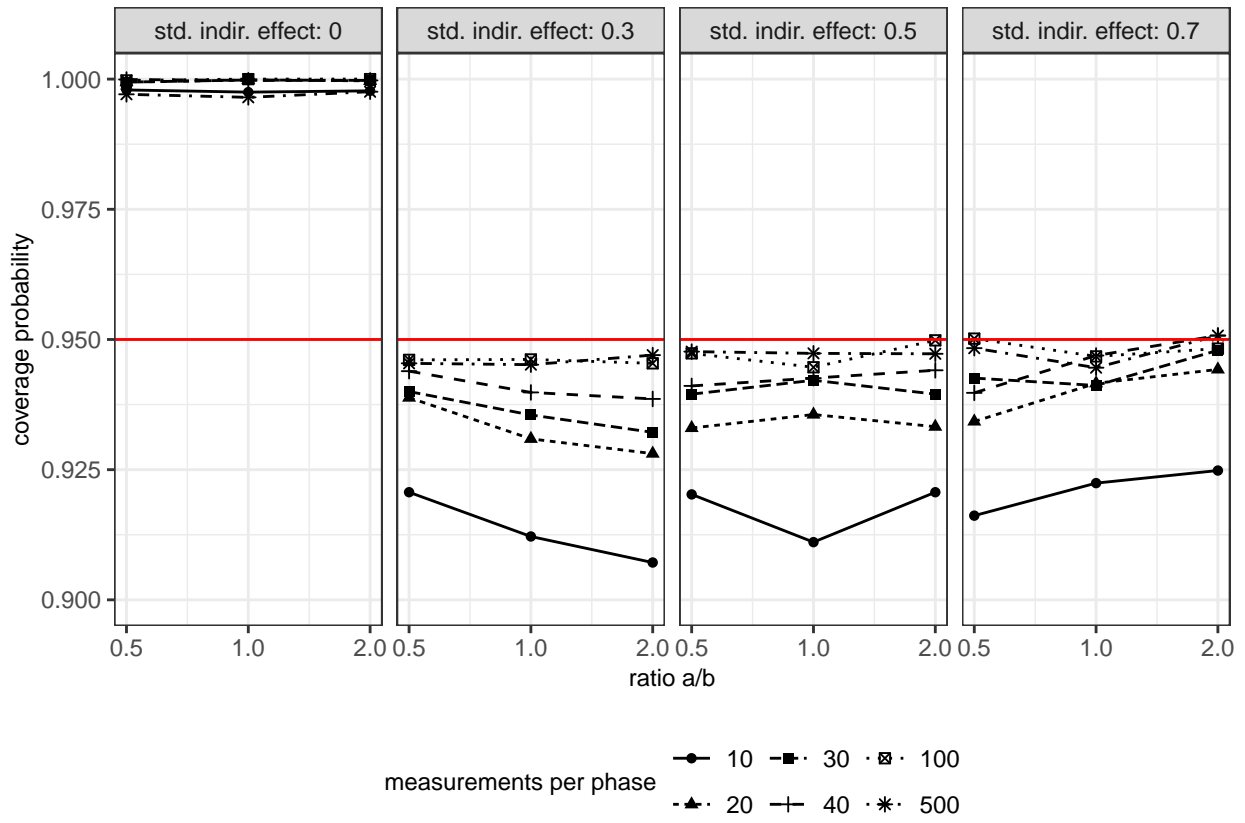
6 Root mean squared error



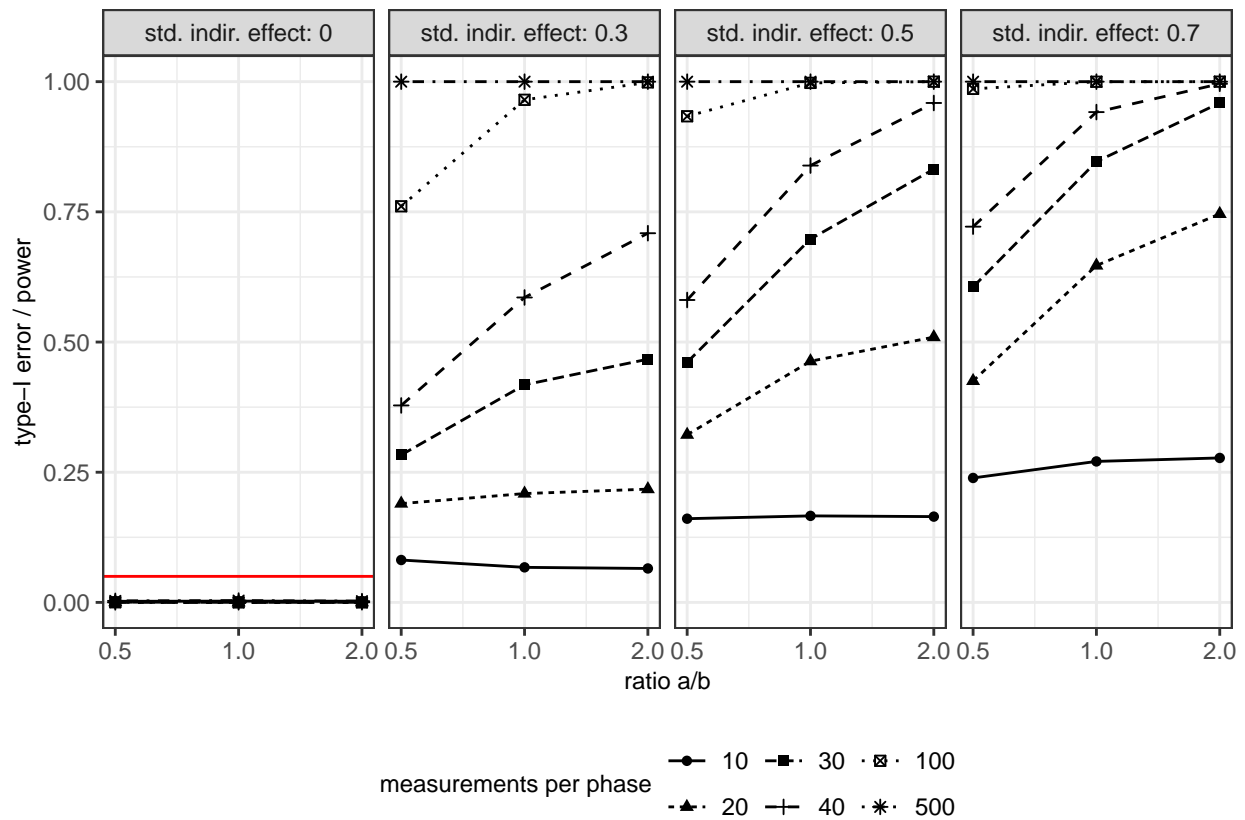
7 Median absolute error



8 Coverage probability

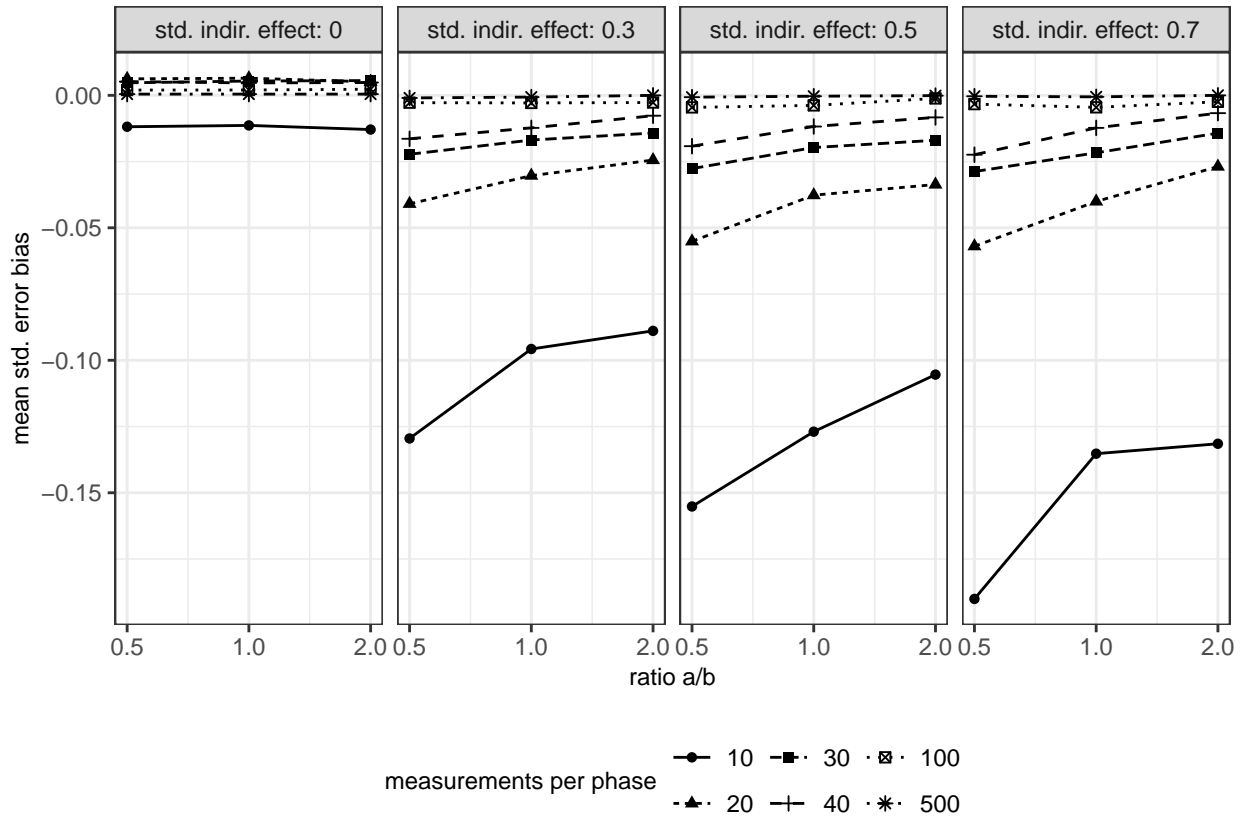


9 Power



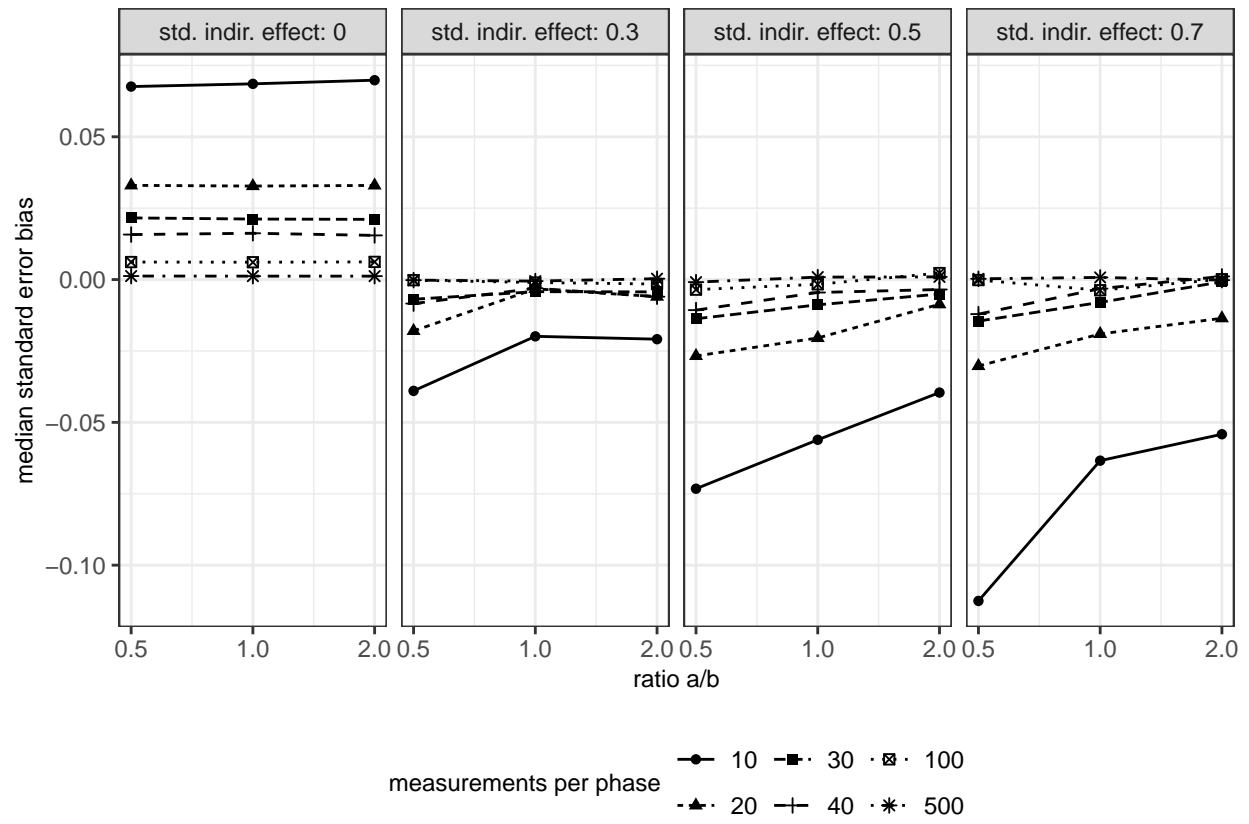
10 Standard error bias: Deviation of mean estimated standard error from empirical standard error (standard deviation of point estimates)

Note: Positive value indicates that the estimated standard error is greater than the true standard error (which is estimated through the standard deviation of the point estimates).

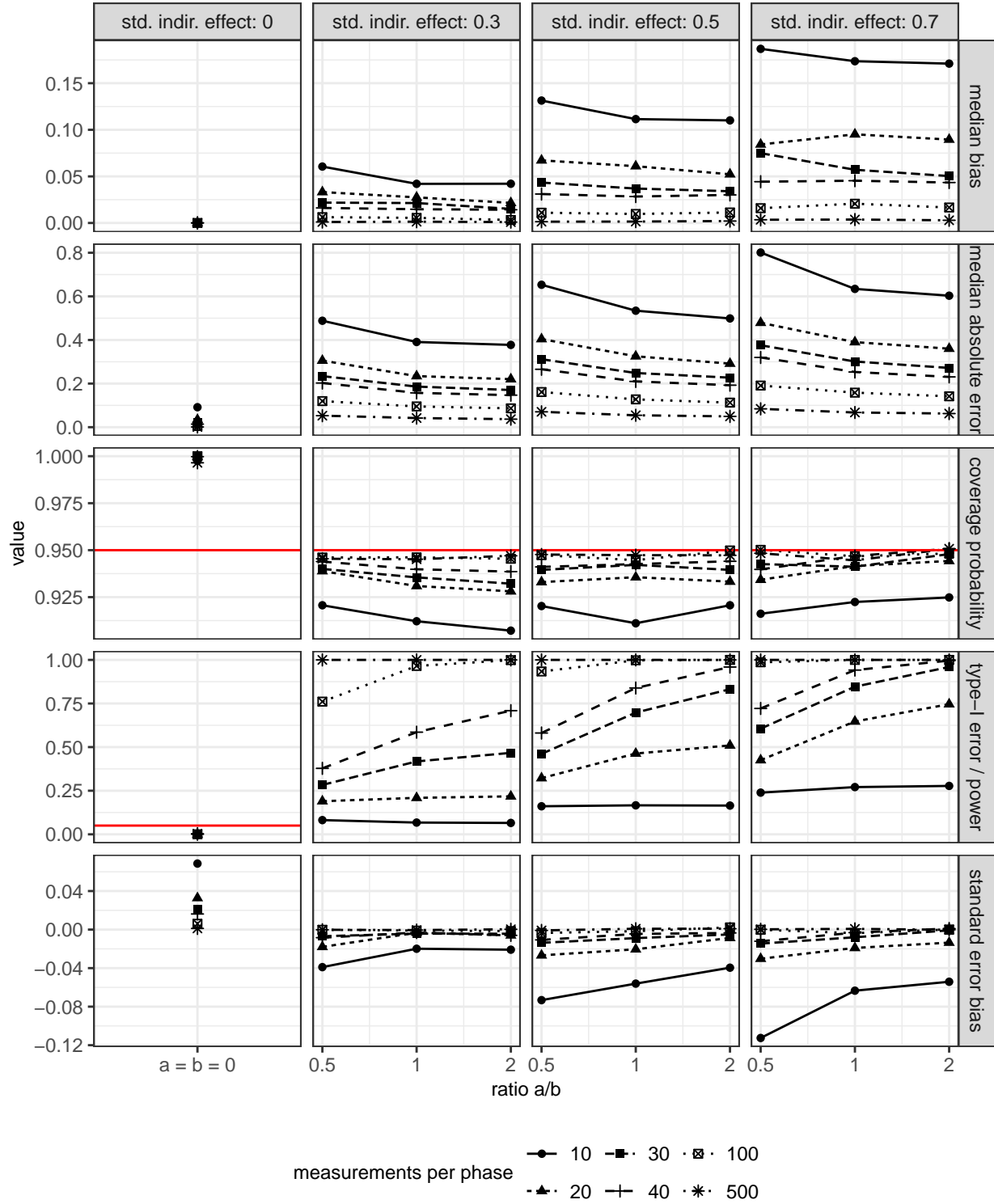


11 Standard error bias: Deviation of median estimated standard error from empirical standard error (MAD of point estimates)

Note: Positive value indicates that the estimated standard error is greater than the true standard error (which is estimated through the MAD of the point estimates).



12 Median based results



13 Mean based results

