

Figure legends:

Figures S1–S21:

Relative bias of naive (solid lines) and conditional (dashed lines) estimates $\hat{\Psi}_1$ and $\hat{\Psi}_2$ calculated from 100 samples being significant at level α simulated under a MOI with allele frequency p . The size of the sample was 200 (dot symbol), 400 (square symbol), or 800 (diamond symbol) families.

Figure S1: MOI=MUL, $p = .5$, $\alpha = .05$

Figure S2: MOI=MUL, $p = .5$, $\alpha = 10^{-3}$

Figure S3: MOI=MUL, $p = .5$, $\alpha = 10^{-6}$

Figure S4: MOI=ADD, $p = .2$, $\alpha = .05$

Figure S5: MOI=ADD, $p = .2$, $\alpha = 10^{-3}$

Figure S6: MOI=ADD, $p = .2$, $\alpha = 10^{-6}$

Figure S7: MOI=ADD, $p = .5$, $\alpha = .05$

Figure S8: MOI=ADD, $p = .5$, $\alpha = 10^{-3}$

Figure S9: MOI=ADD, $p = .5$, $\alpha = 10^{-6}$

Figure S10: MOI=REC, $p = .2$, $\alpha = .05$

Figure S11: MOI=REC, $p = .2$, $\alpha = 10^{-3}$

Figure S12: MOI=REC, $p = .2$, $\alpha = 10^{-6}$

Figure S13: MOI=REC, $p = .5$, $\alpha = .05$

Figure S14: MOI=REC, $p = .5$, $\alpha = 10^{-3}$

Figure S15: MOI=REC, $p = .5$, $\alpha = 10^{-6}$

Figure S16: MOI=DOM, $p = .2$, $\alpha = .05$

Figure S17: MOI=DOM, $p = .2$, $\alpha = 10^{-3}$

Figure S18: MOI=DOM, $p = .2$, $\alpha = 10^{-6}$

Figure S19: MOI=DOM, $p = .5$, $\alpha = .05$

Figure S20: MOI=DOM, $p = .5$, $\alpha = 10^{-3}$

Figure S21: MOI=DOM, $p = .5$, $\alpha = 10^{-6}$

Fig. S1.—

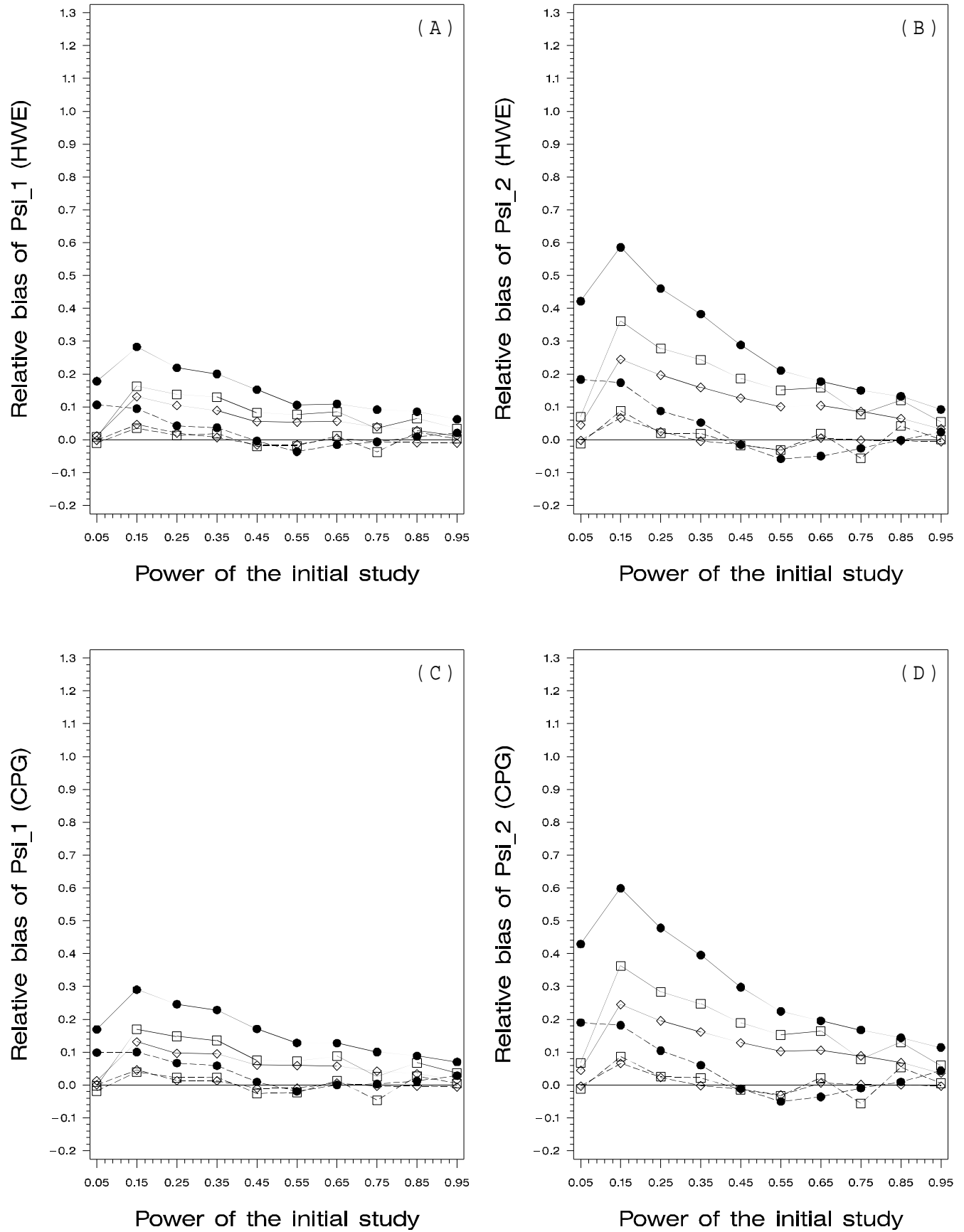


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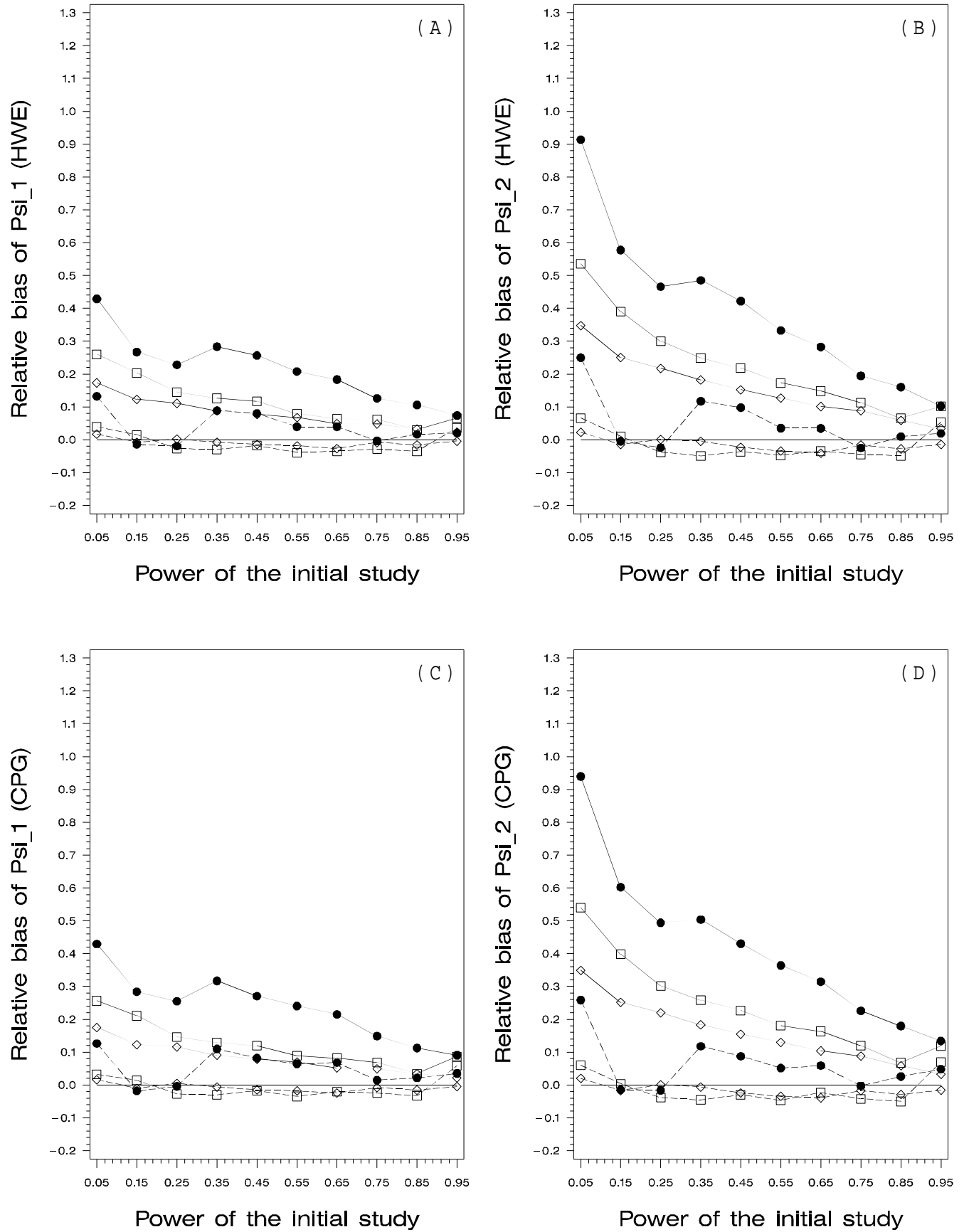


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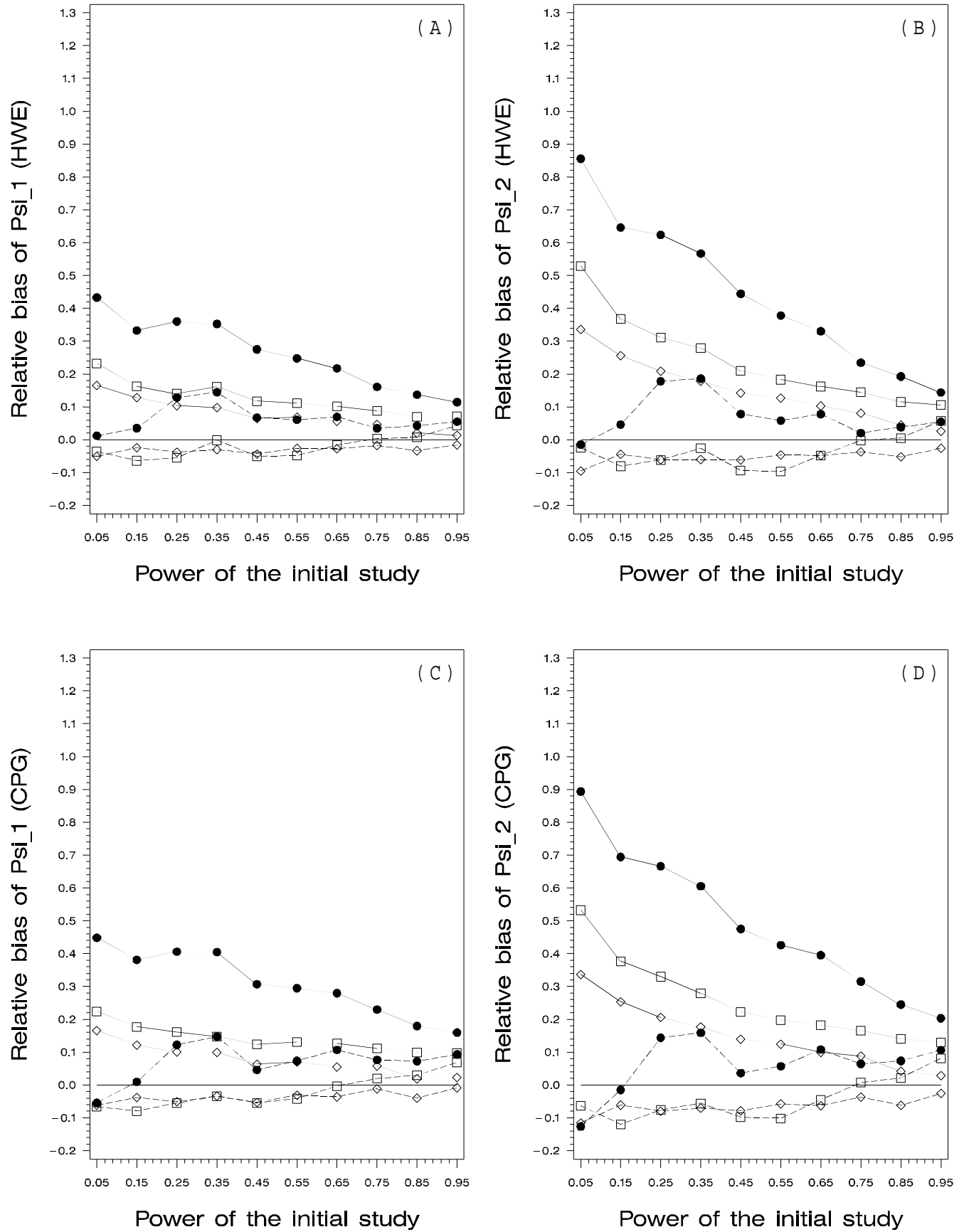


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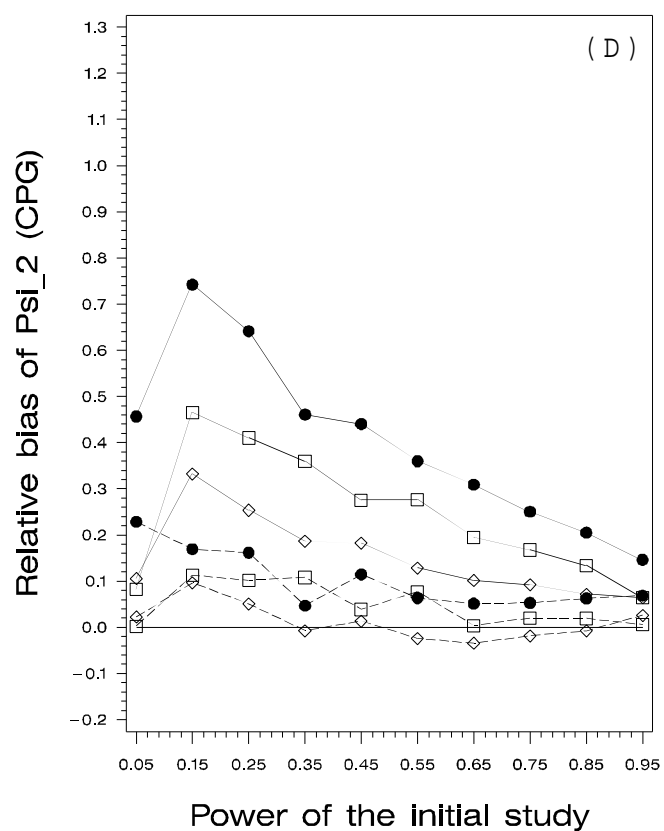
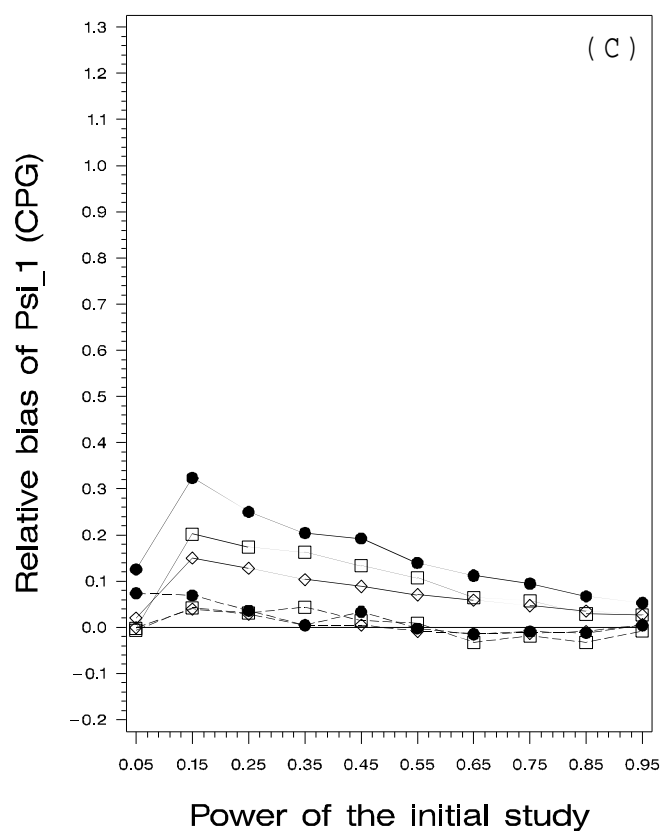
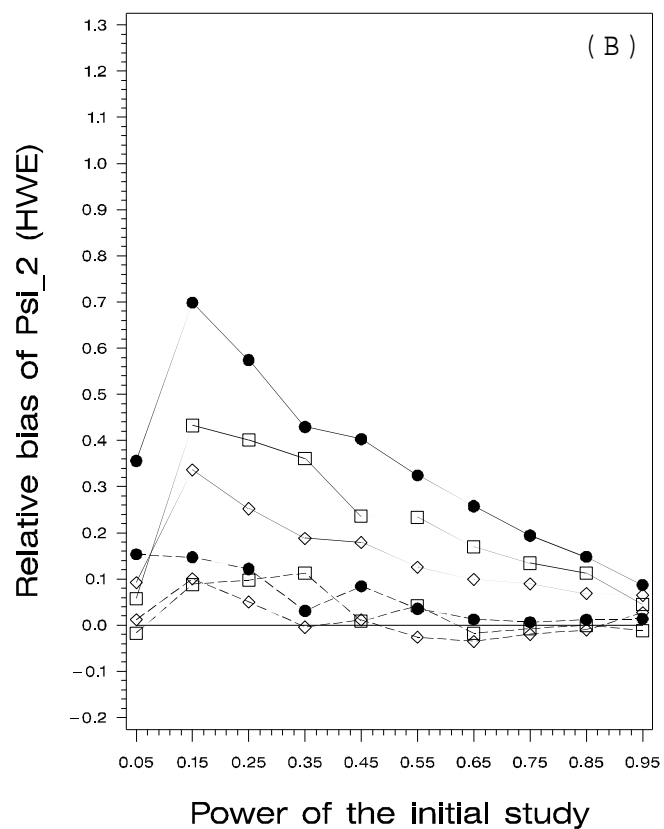
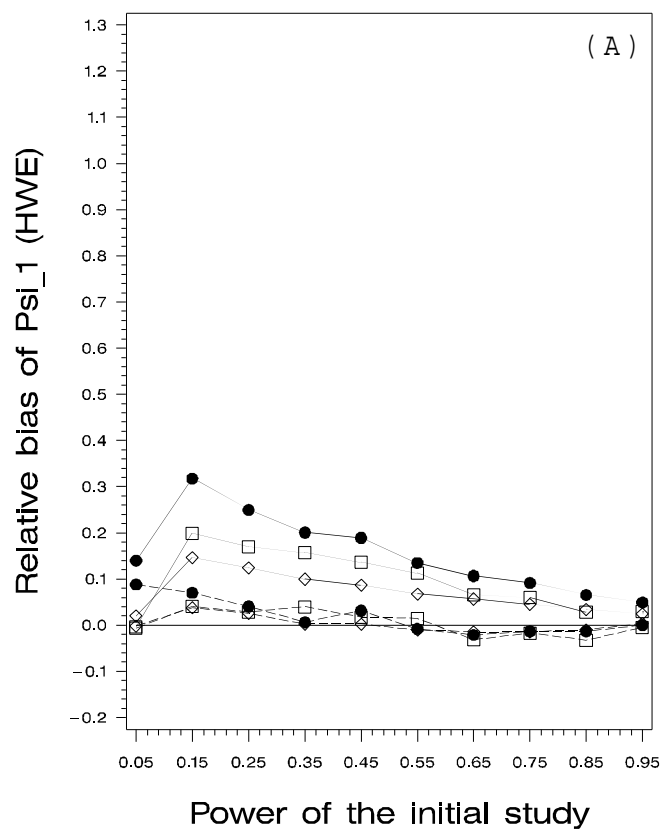


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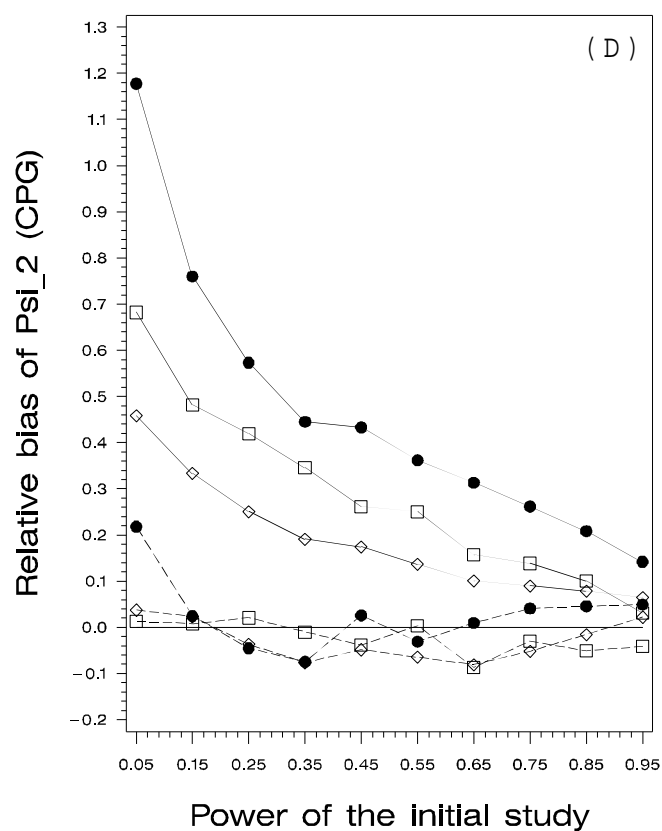
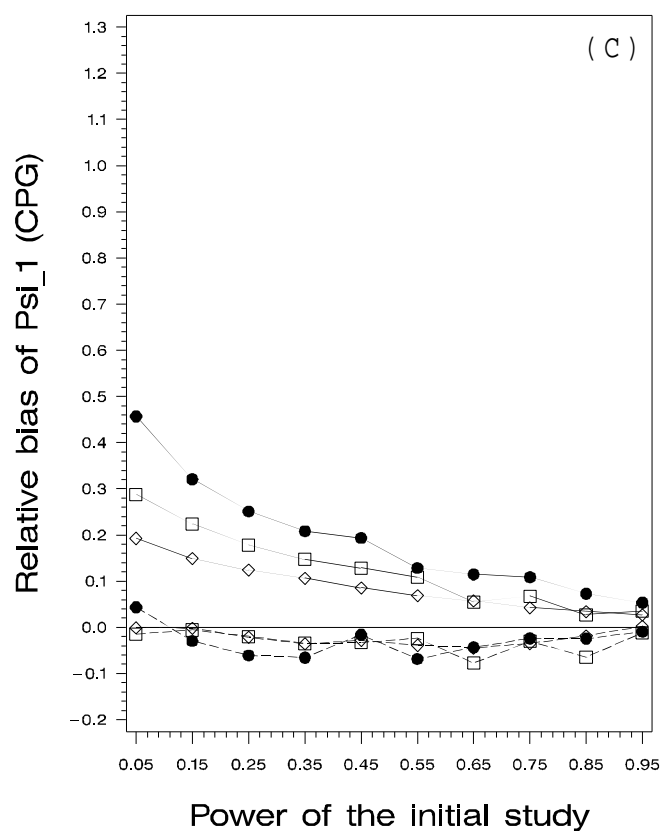
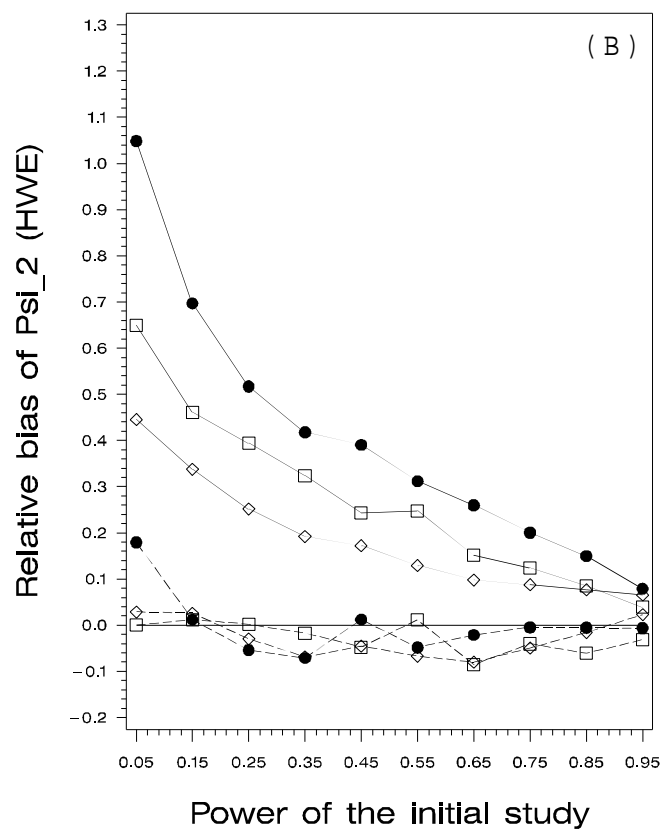
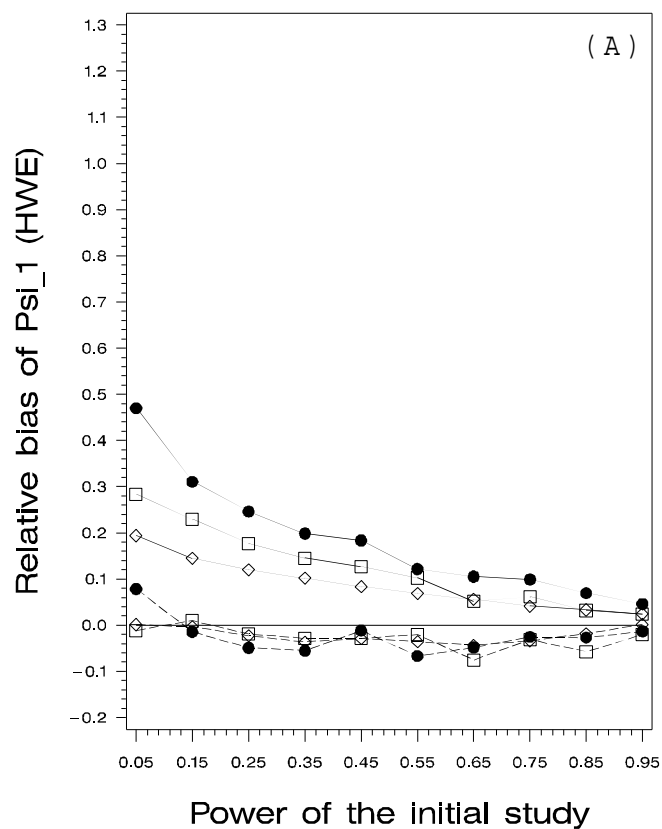


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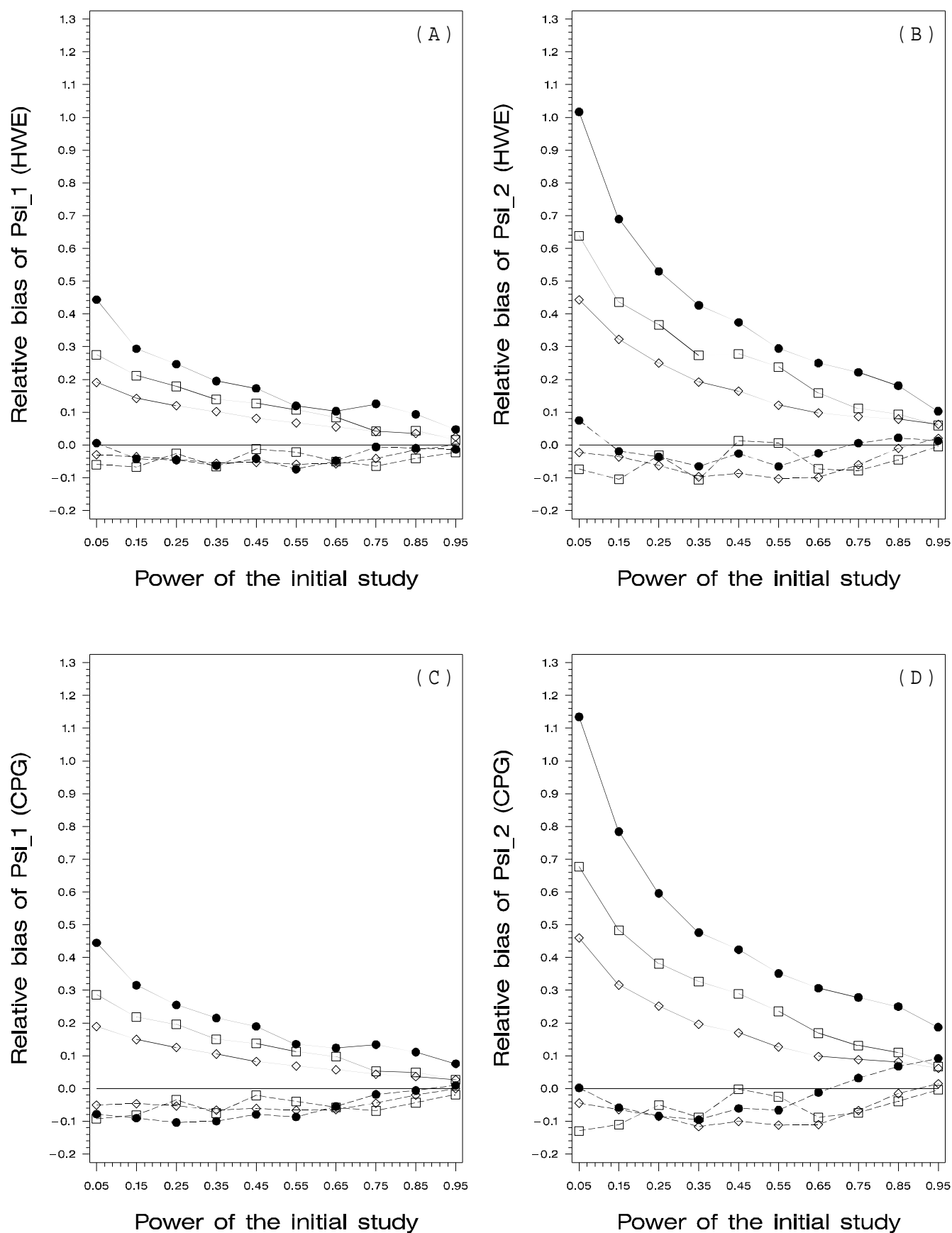


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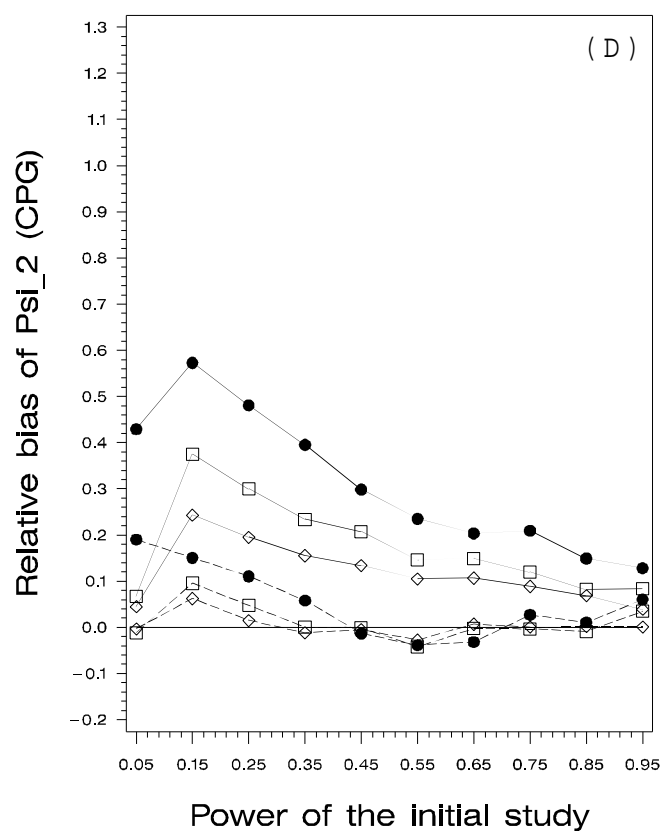
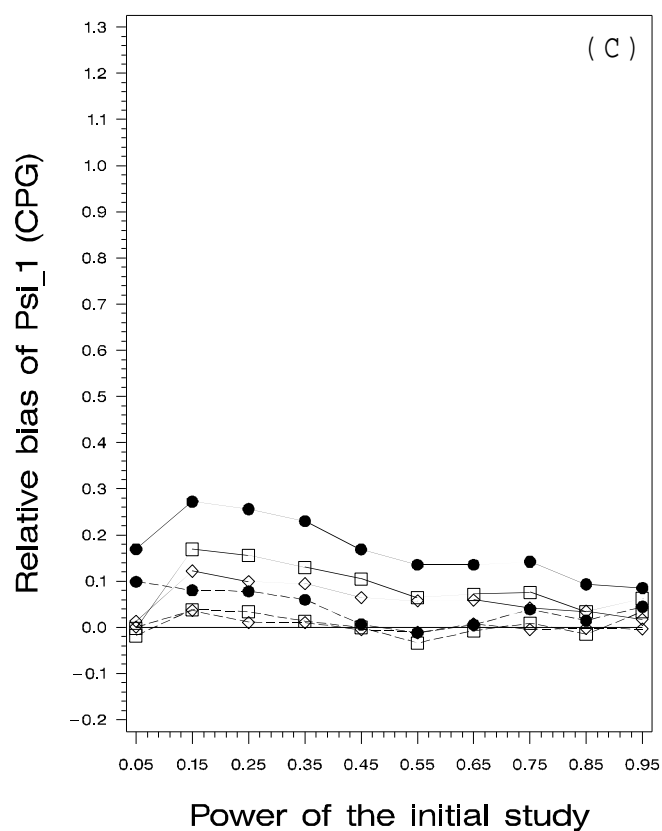
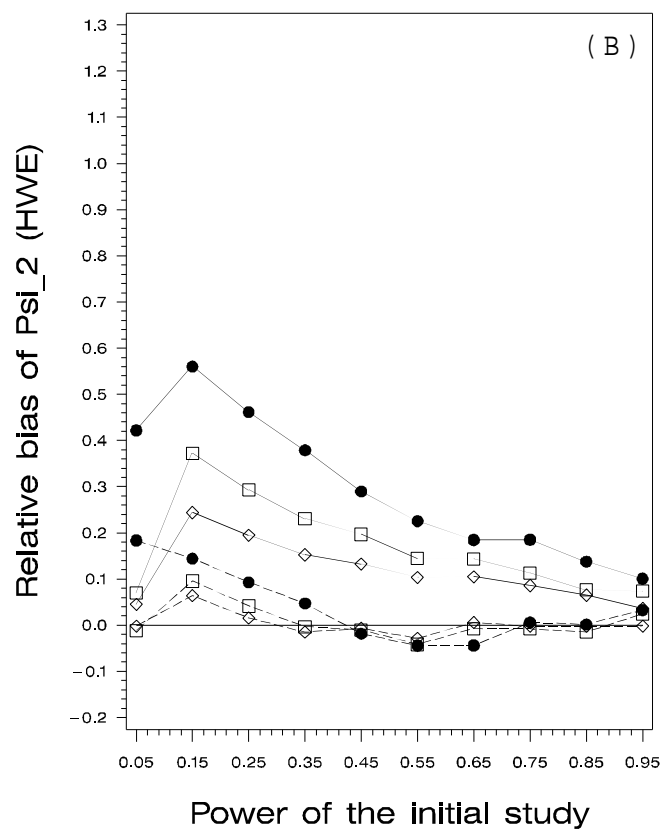
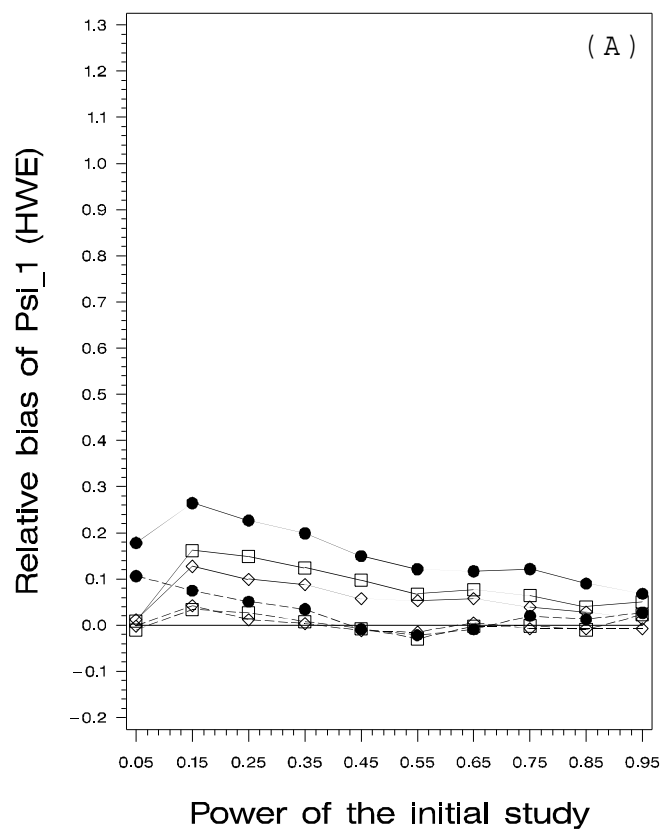


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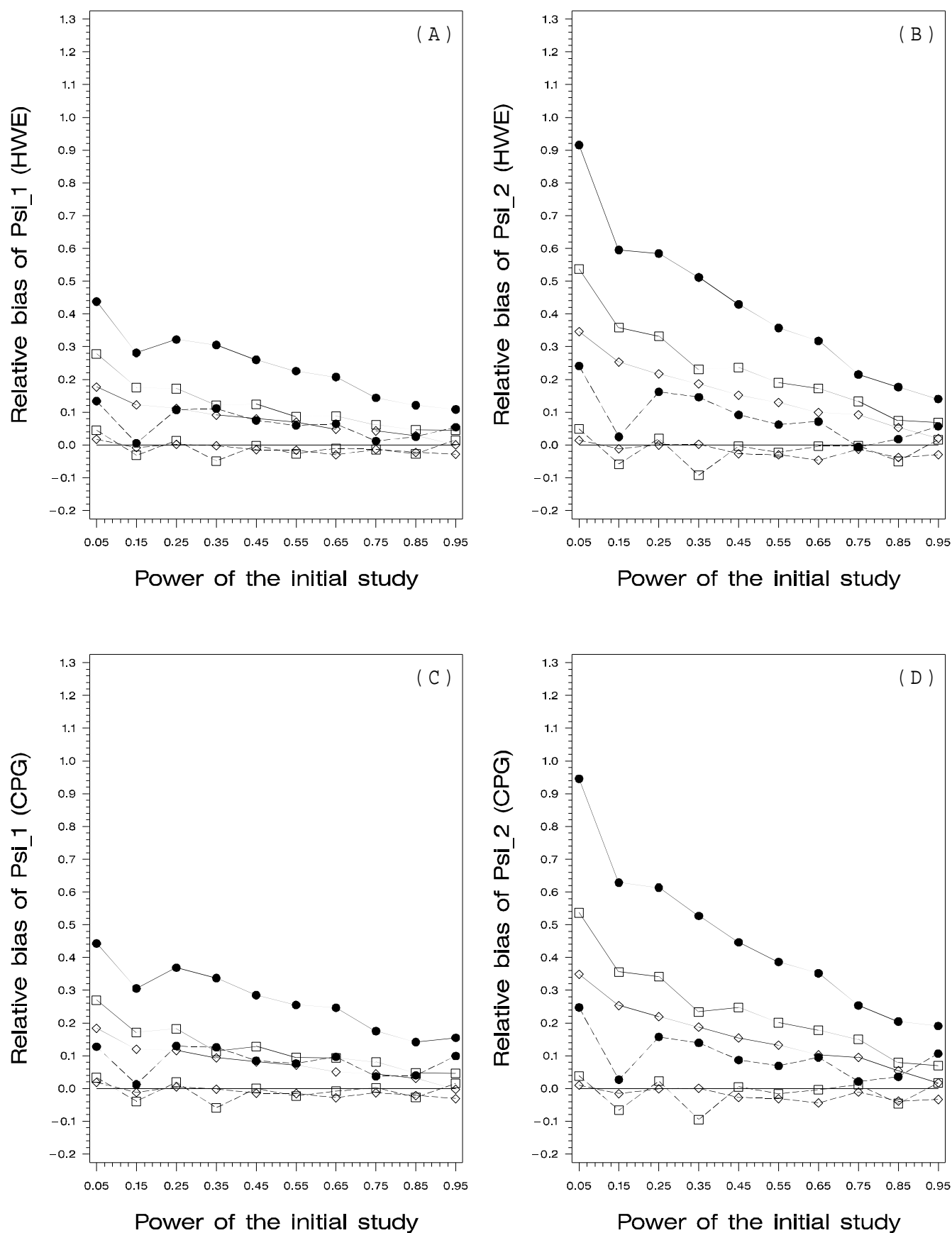


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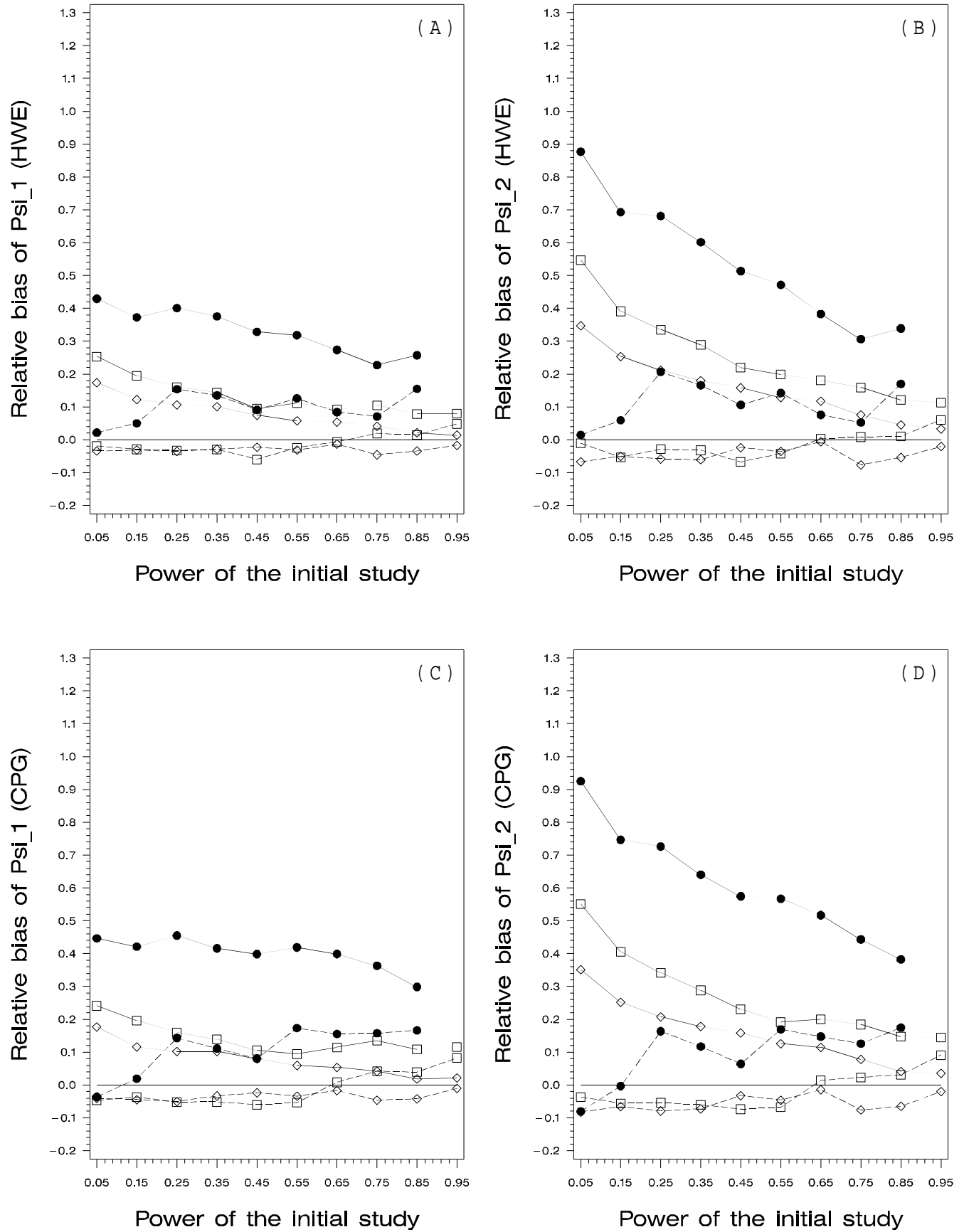


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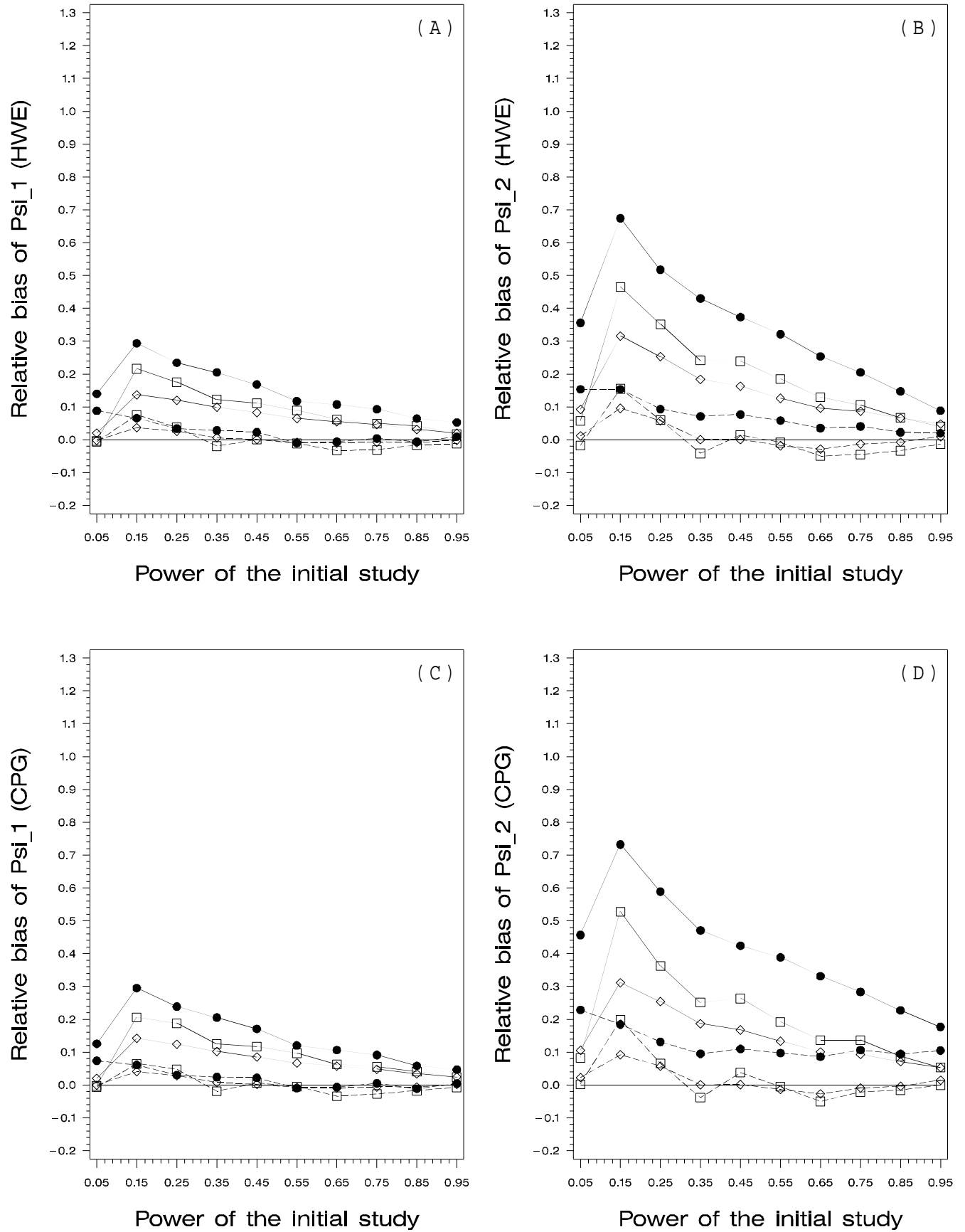


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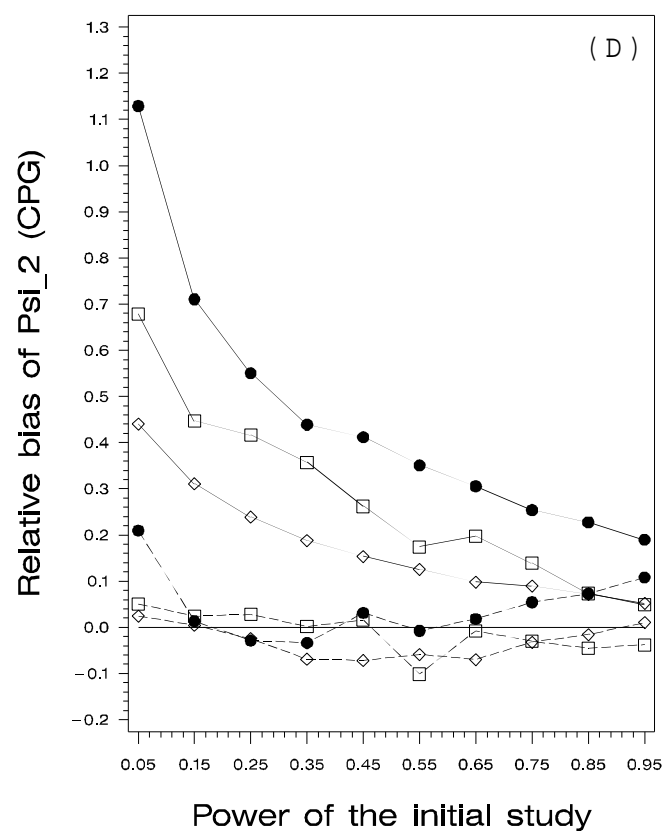
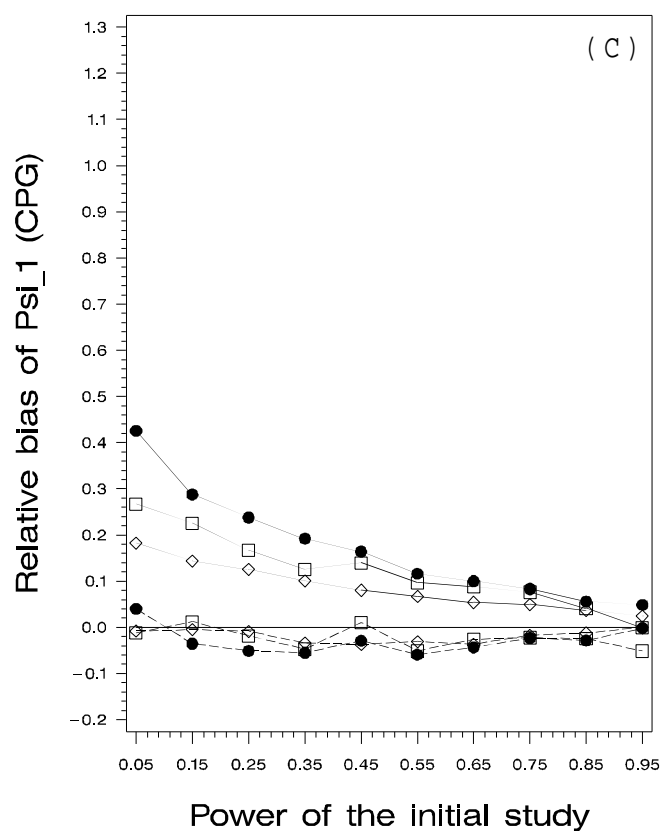
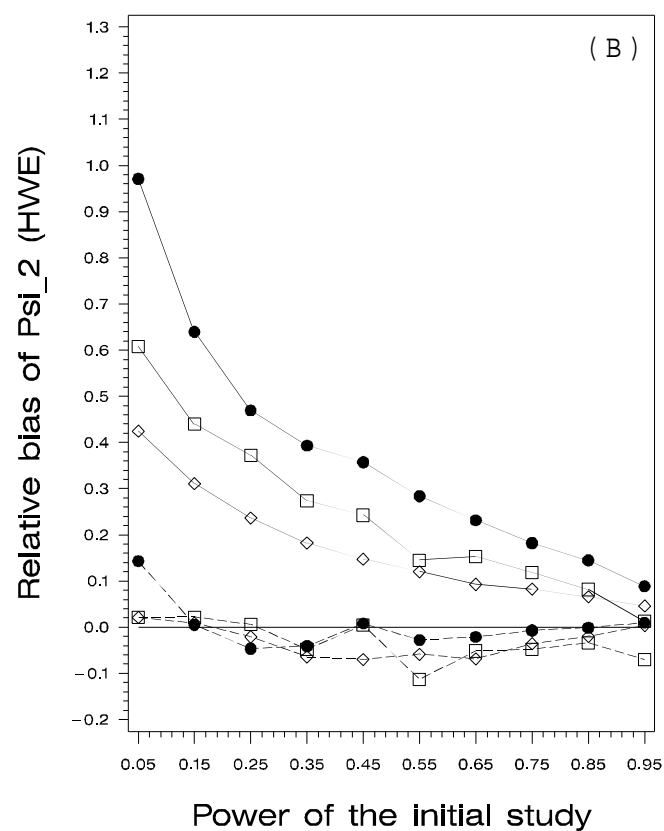
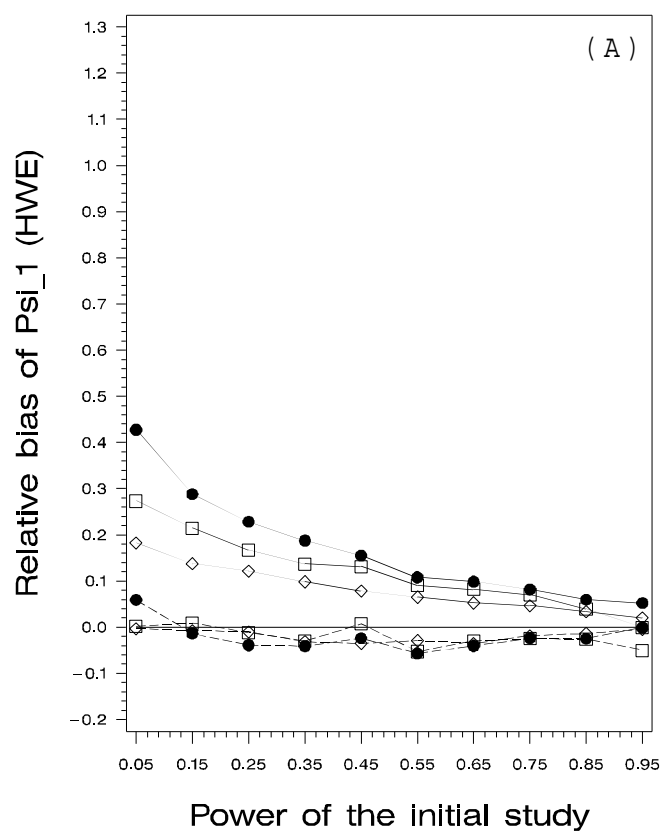


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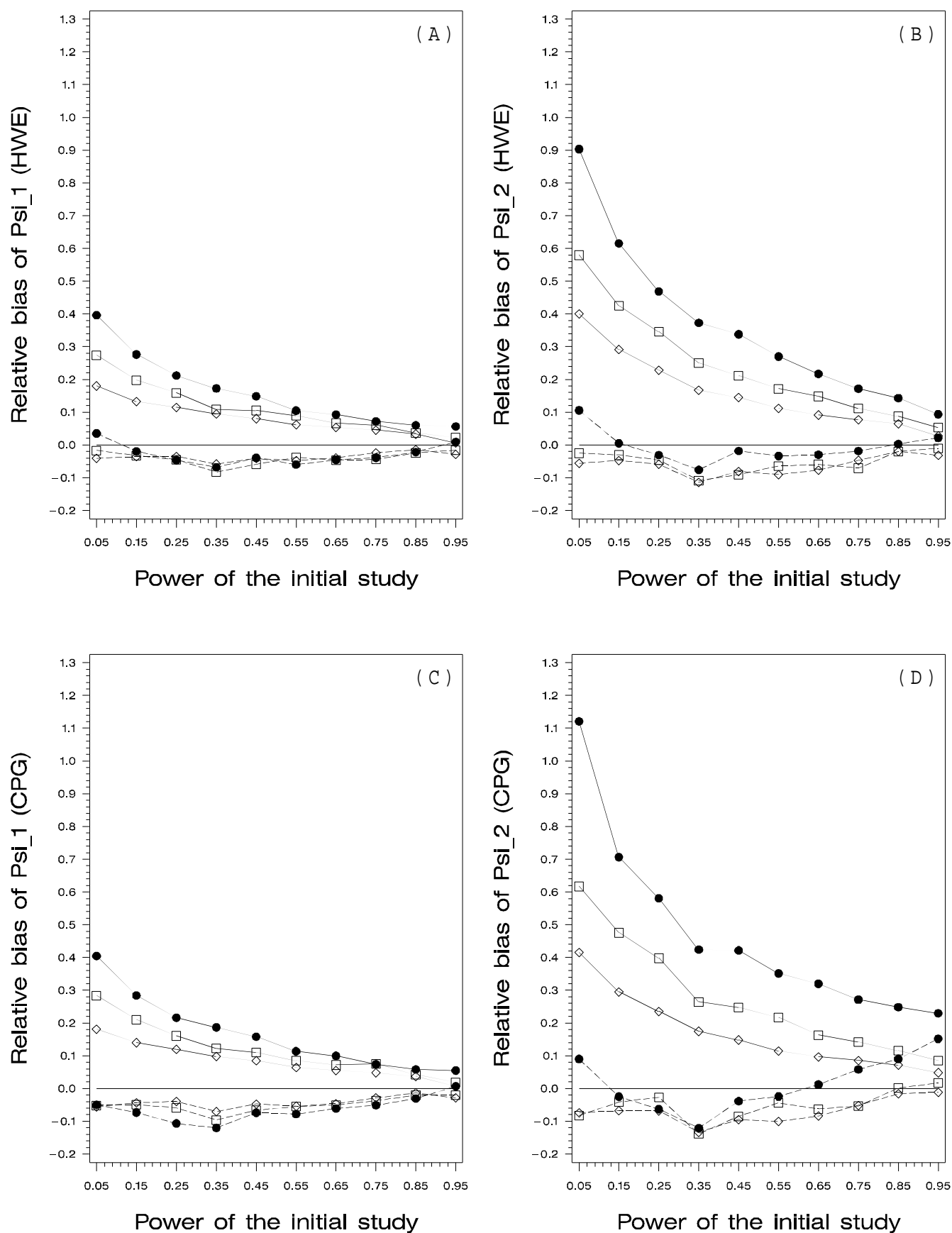


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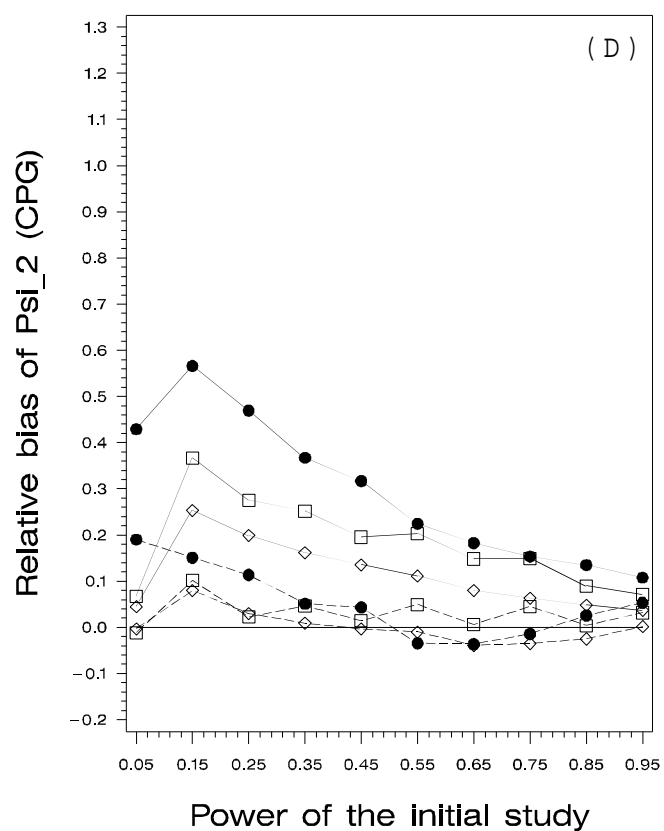
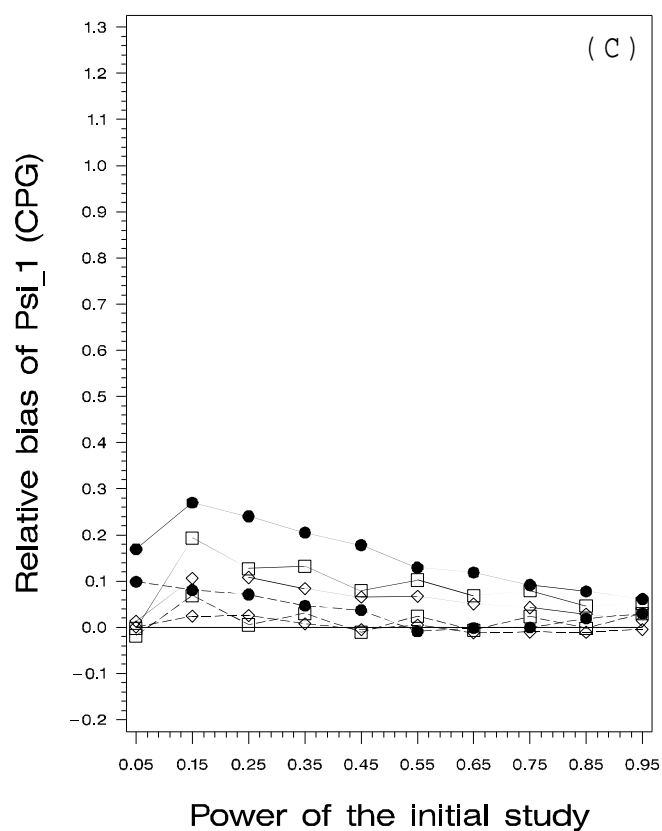
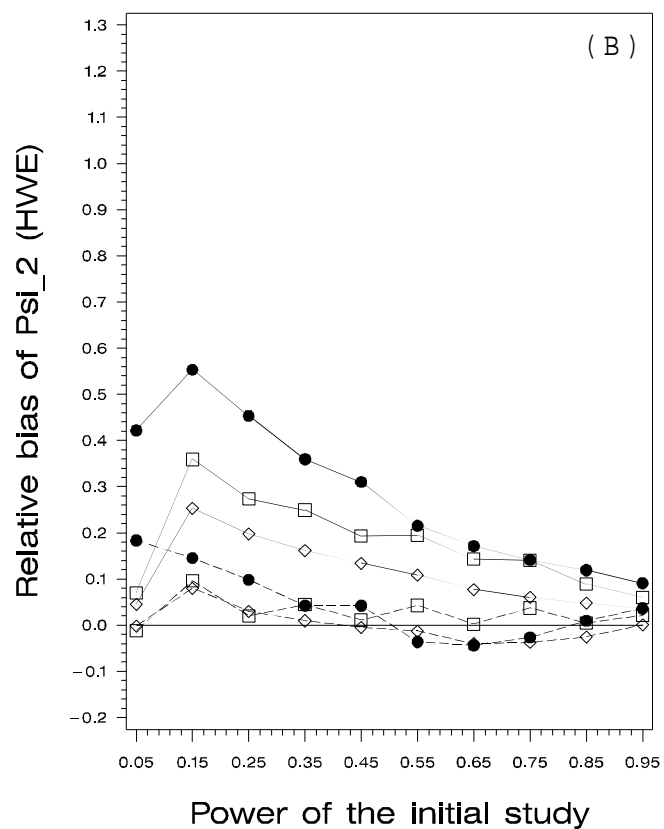
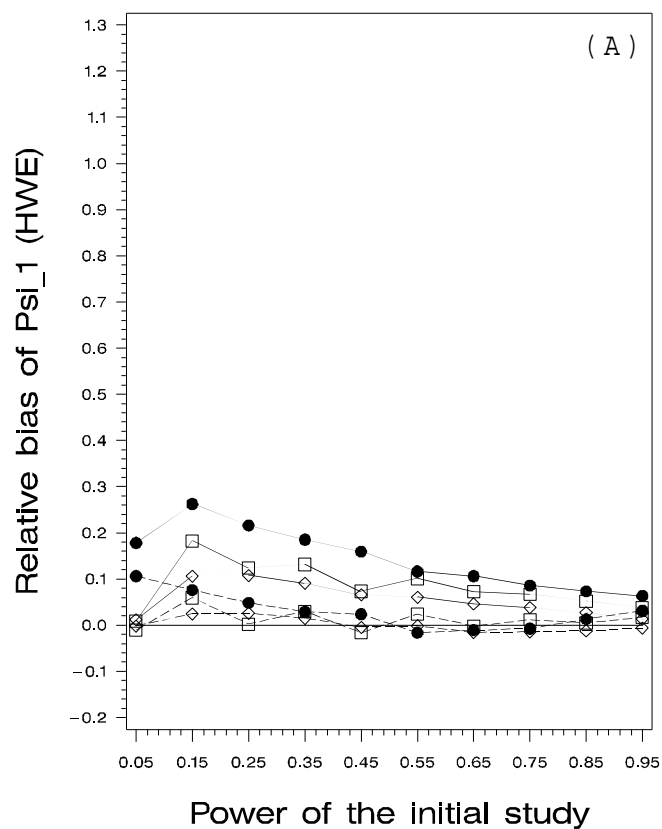


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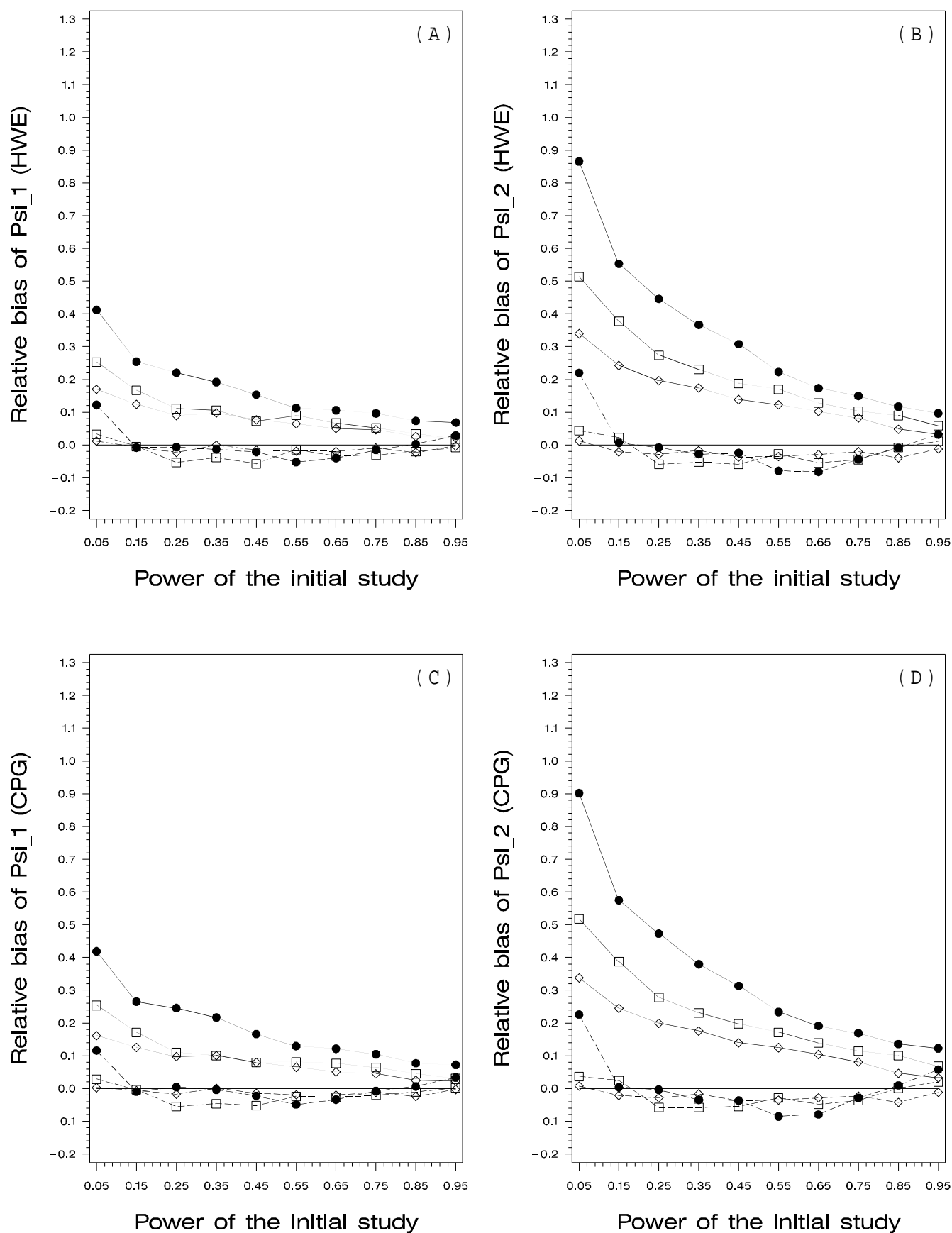


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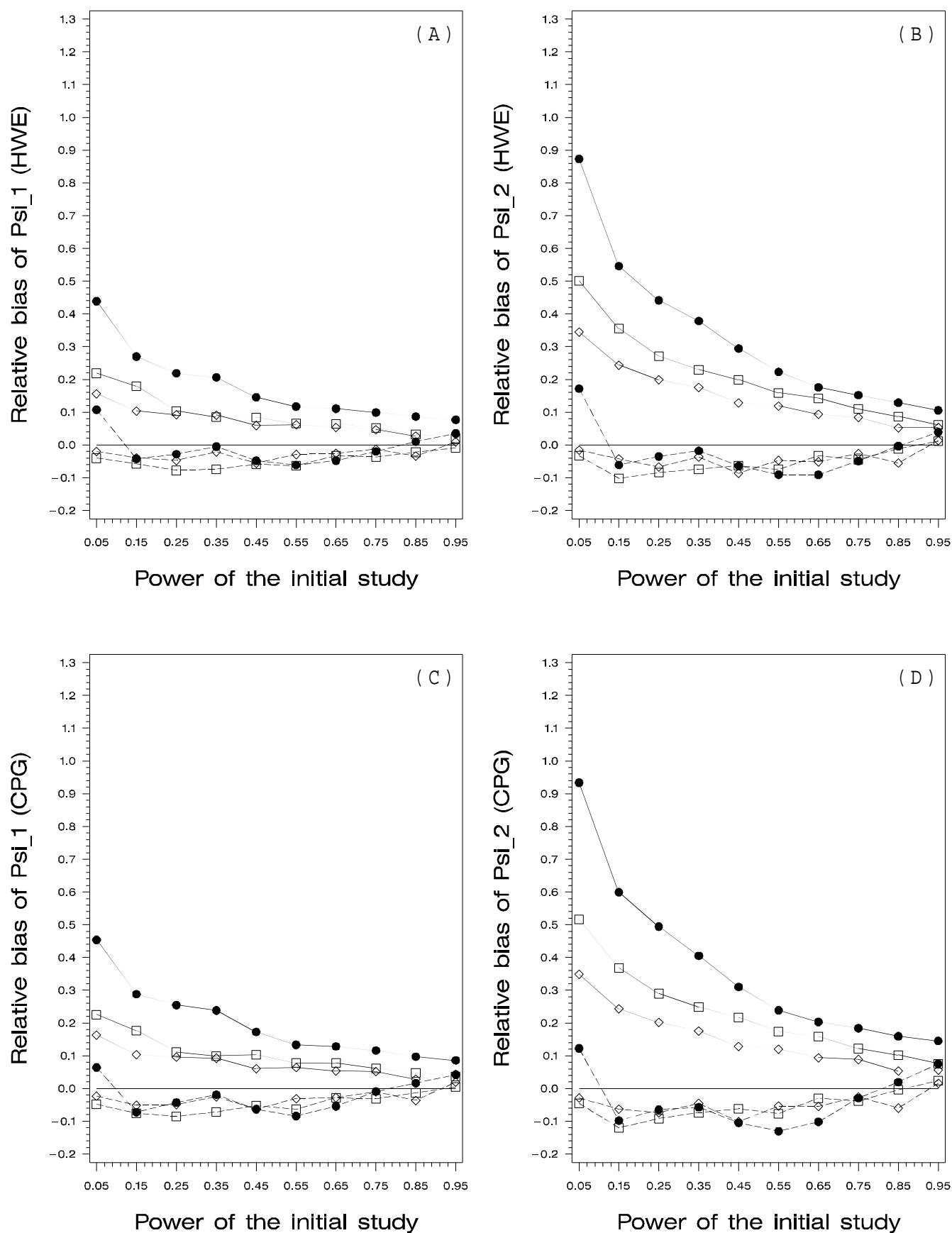


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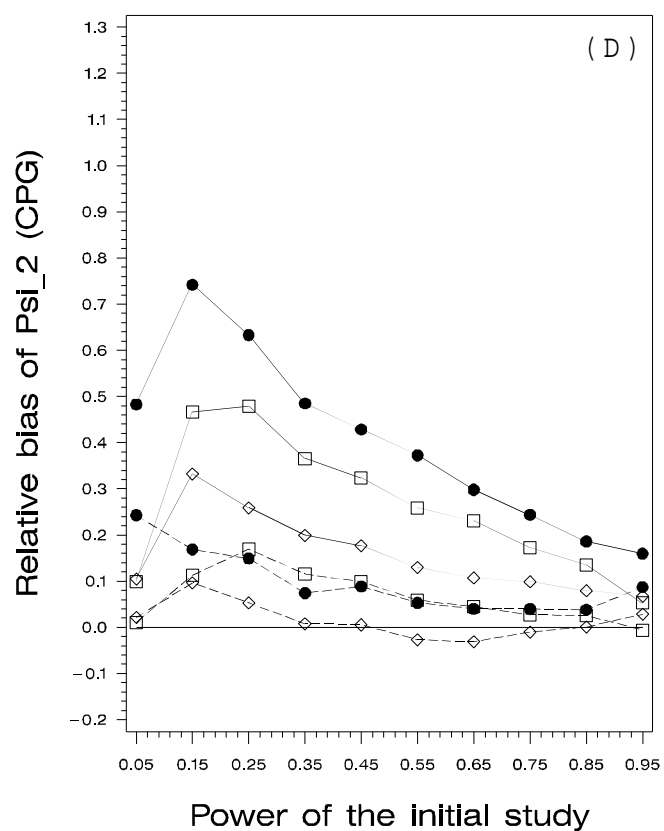
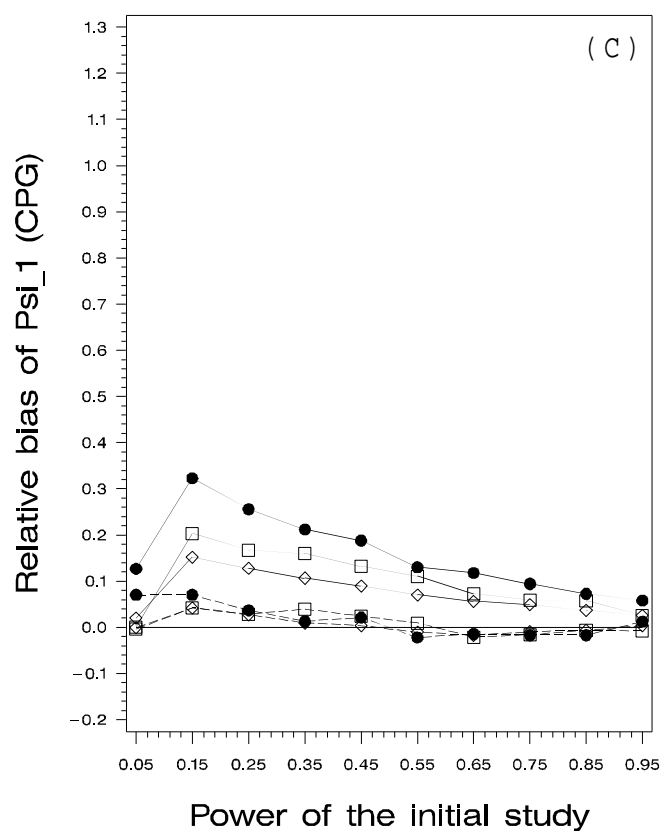
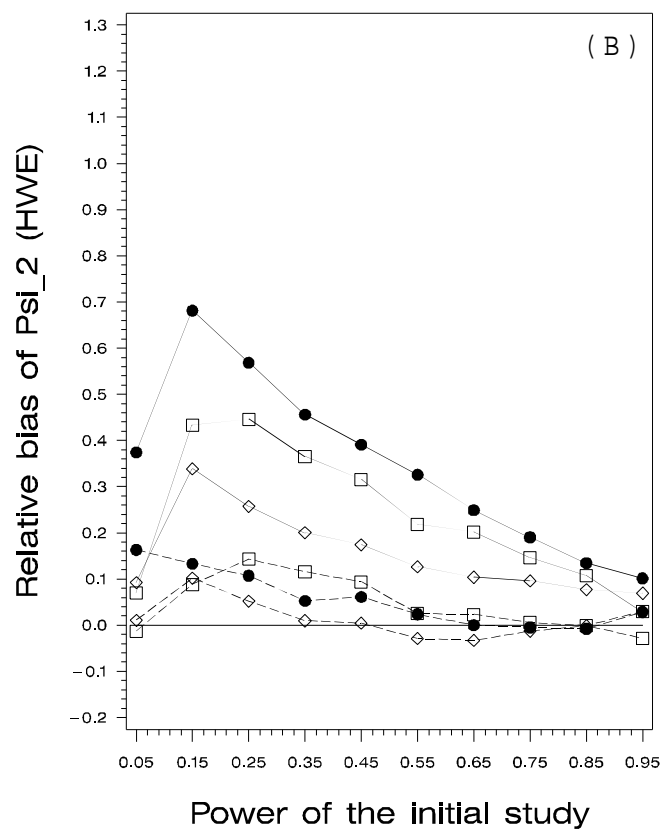
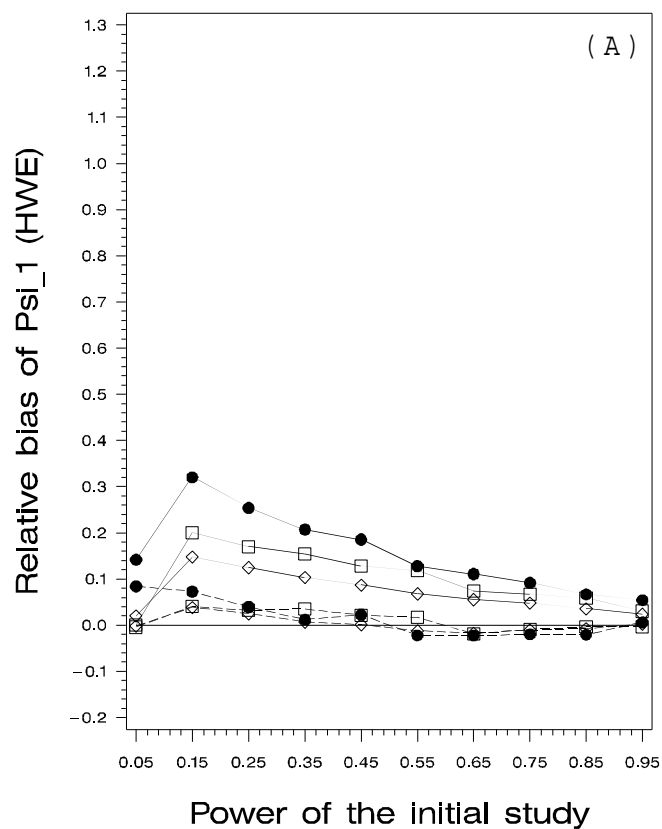


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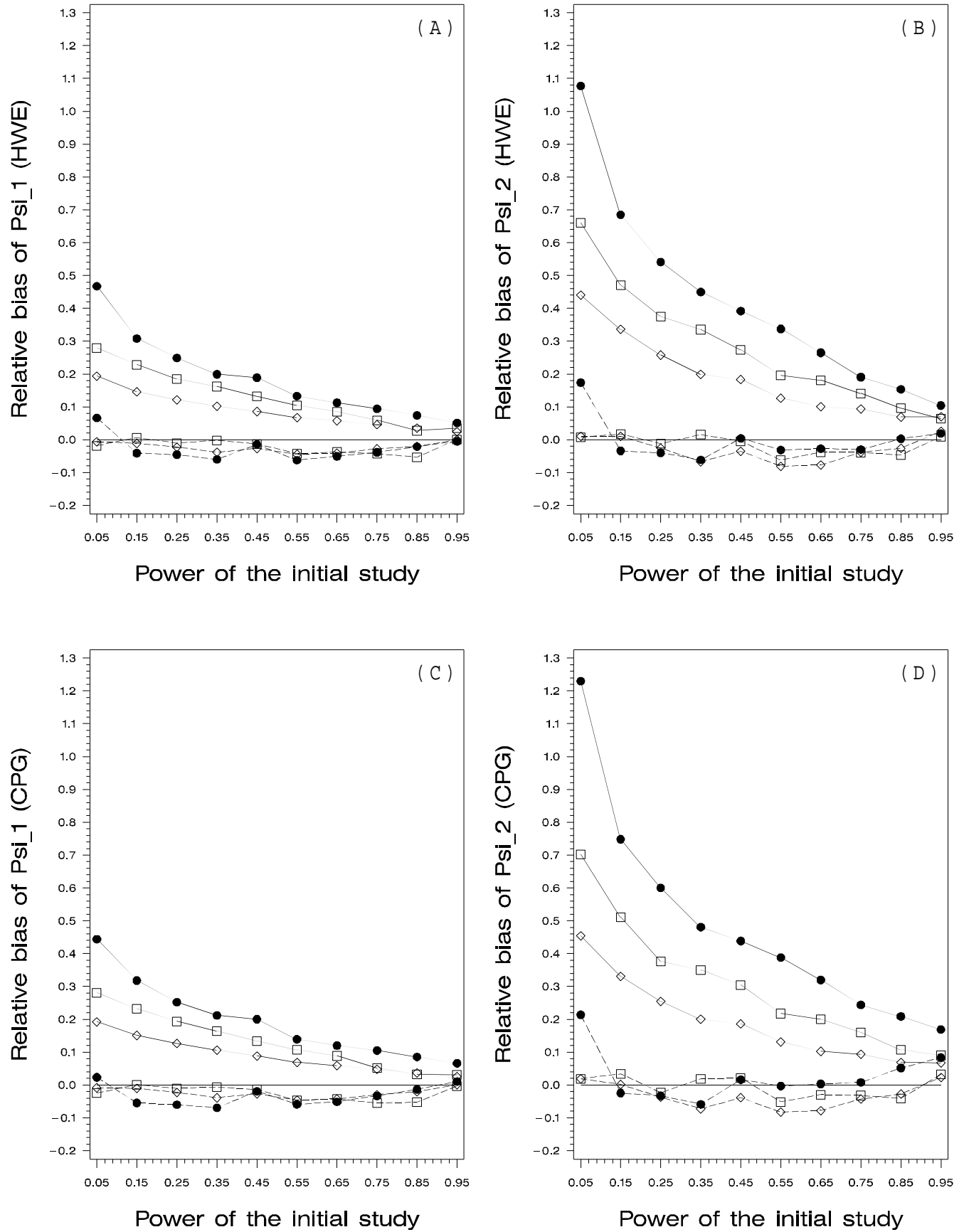


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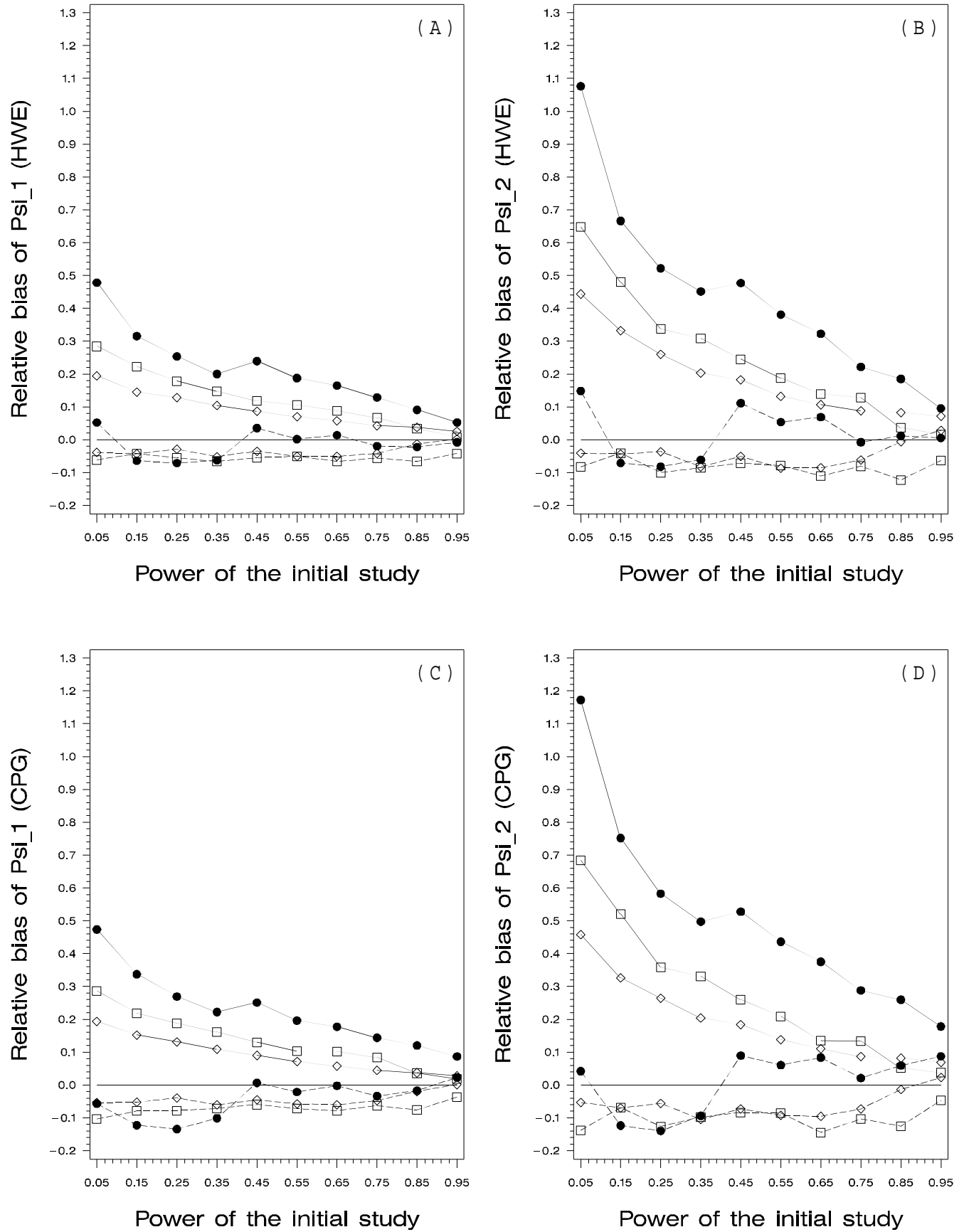


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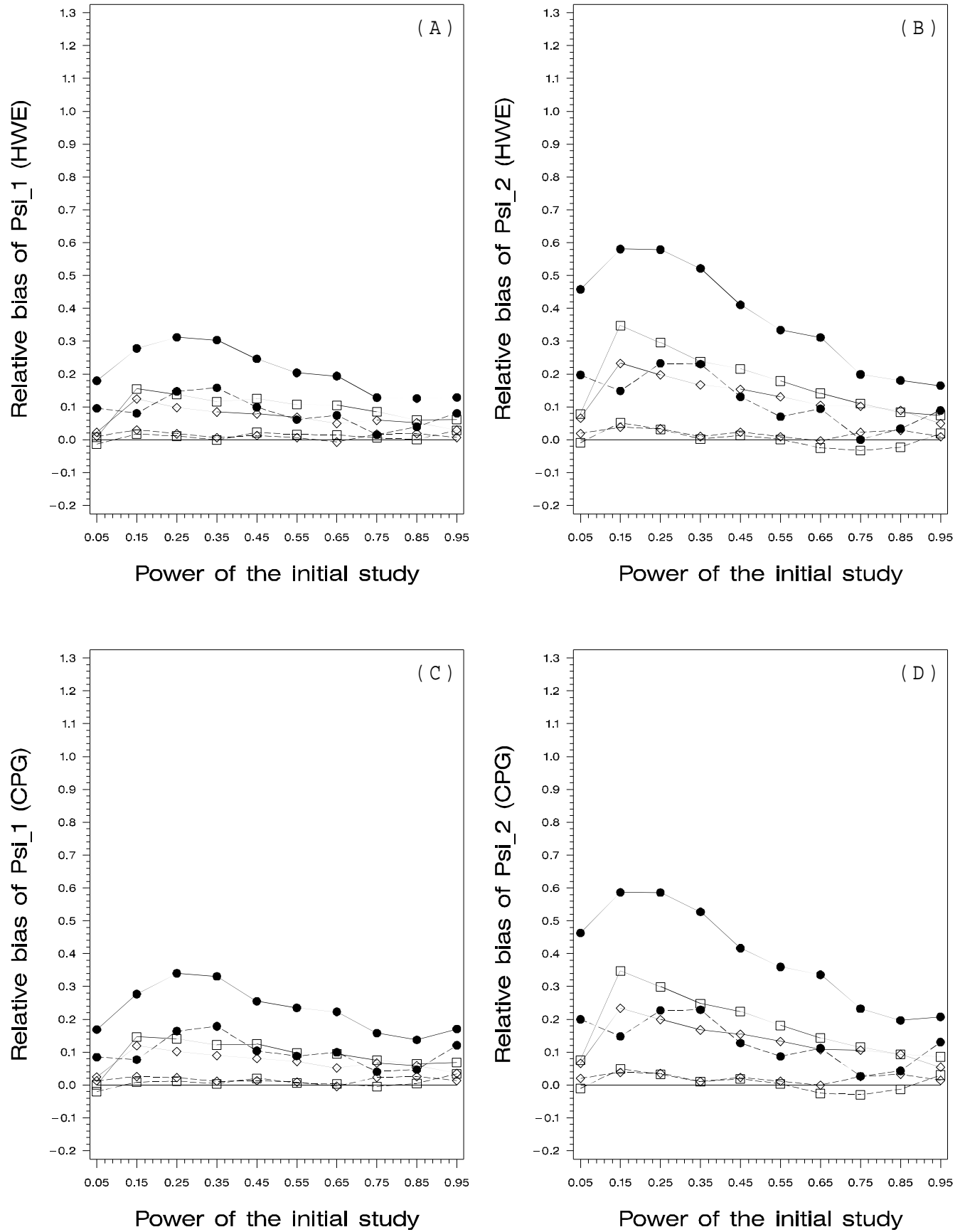


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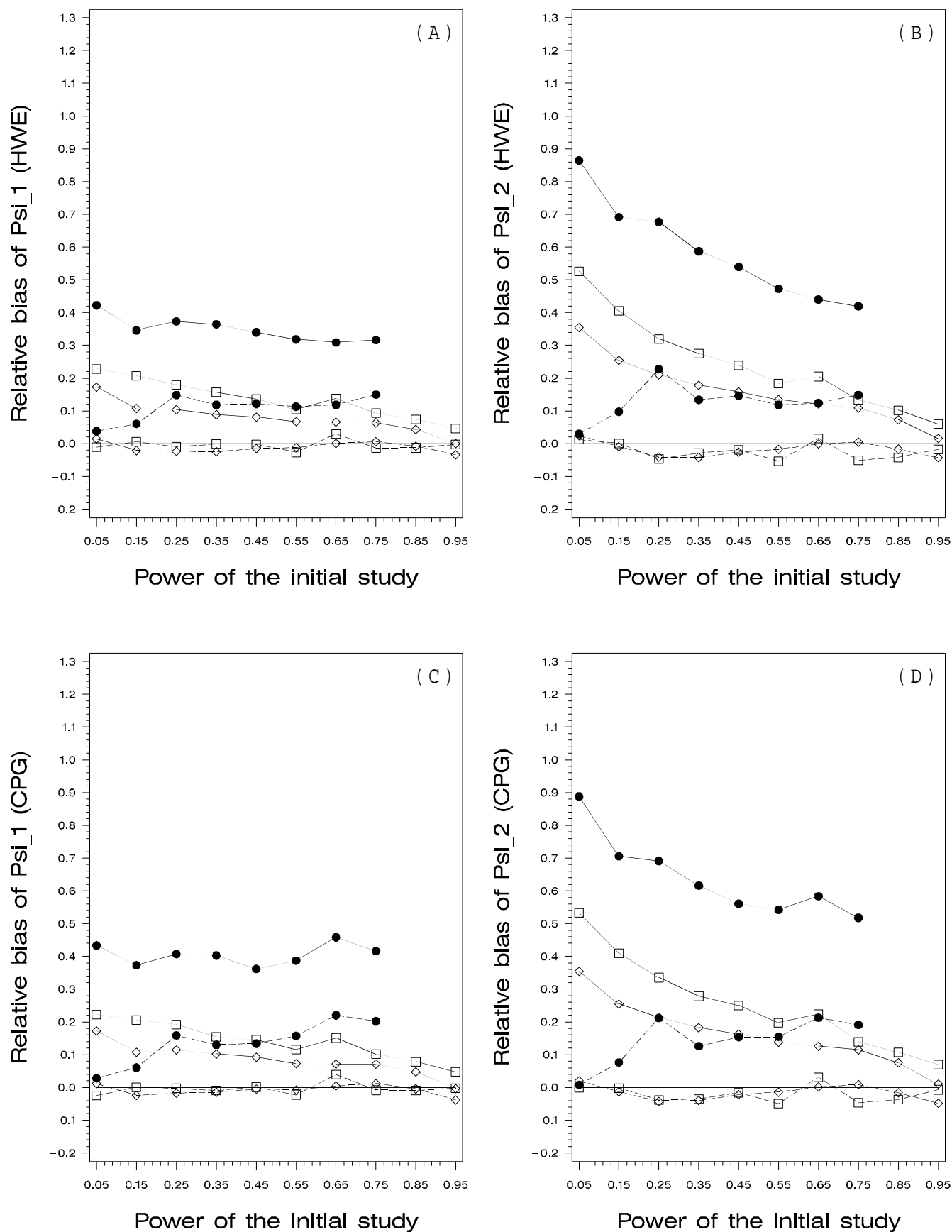


Fig. S21.—

