

Supplementary materials for *Small sample methods for cluster-robust variance estimation
and hypothesis testing in fixed effects models*

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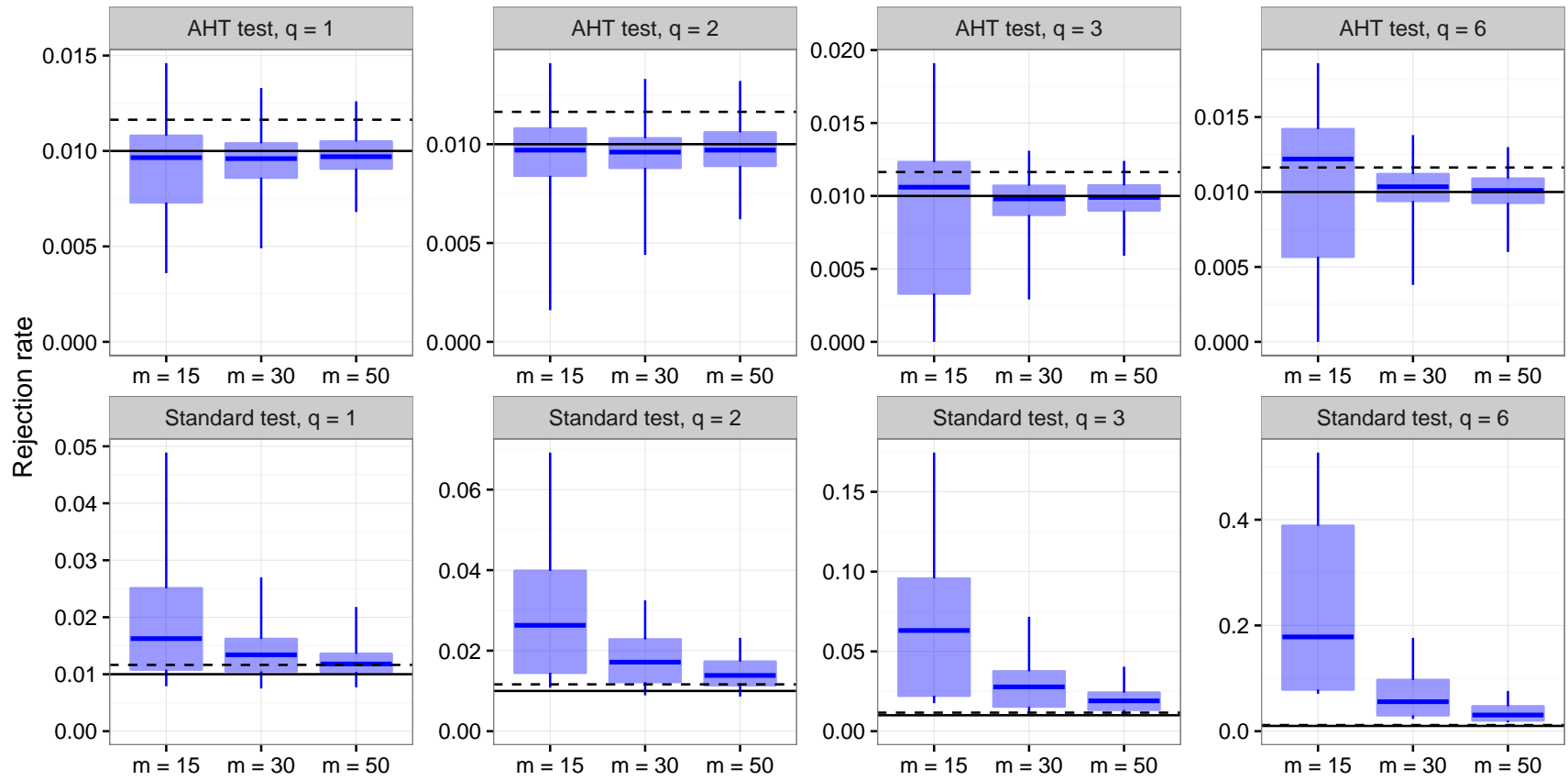


Figure S1: Rejection rates of AHT and standard tests for $\alpha = .01$, by dimension of hypothesis (q) and sample size (m).

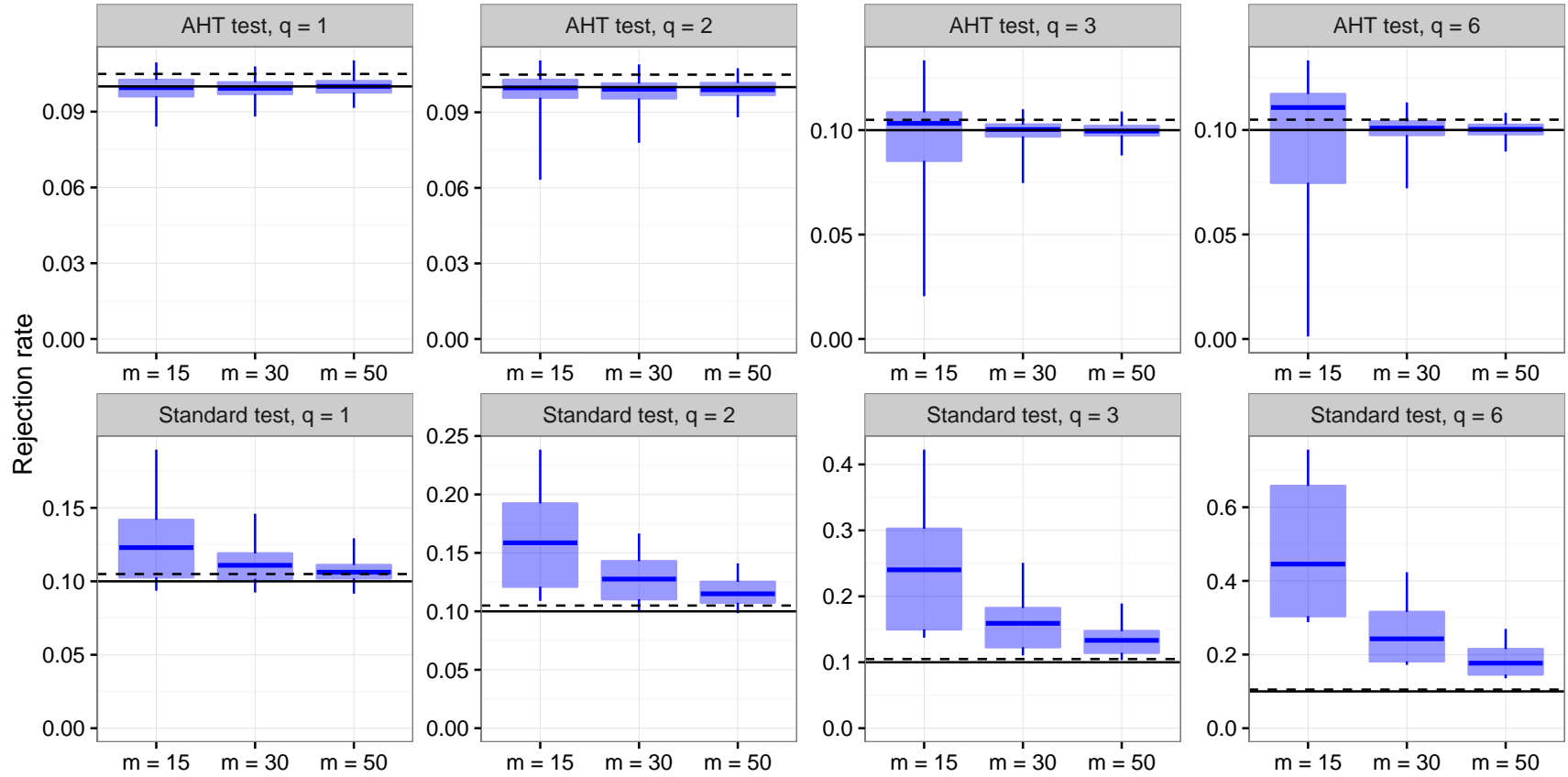


Figure S2: Rejection rates of AHT and standard tests for $\alpha = .10$, by dimension of hypothesis (q) and sample size (m).

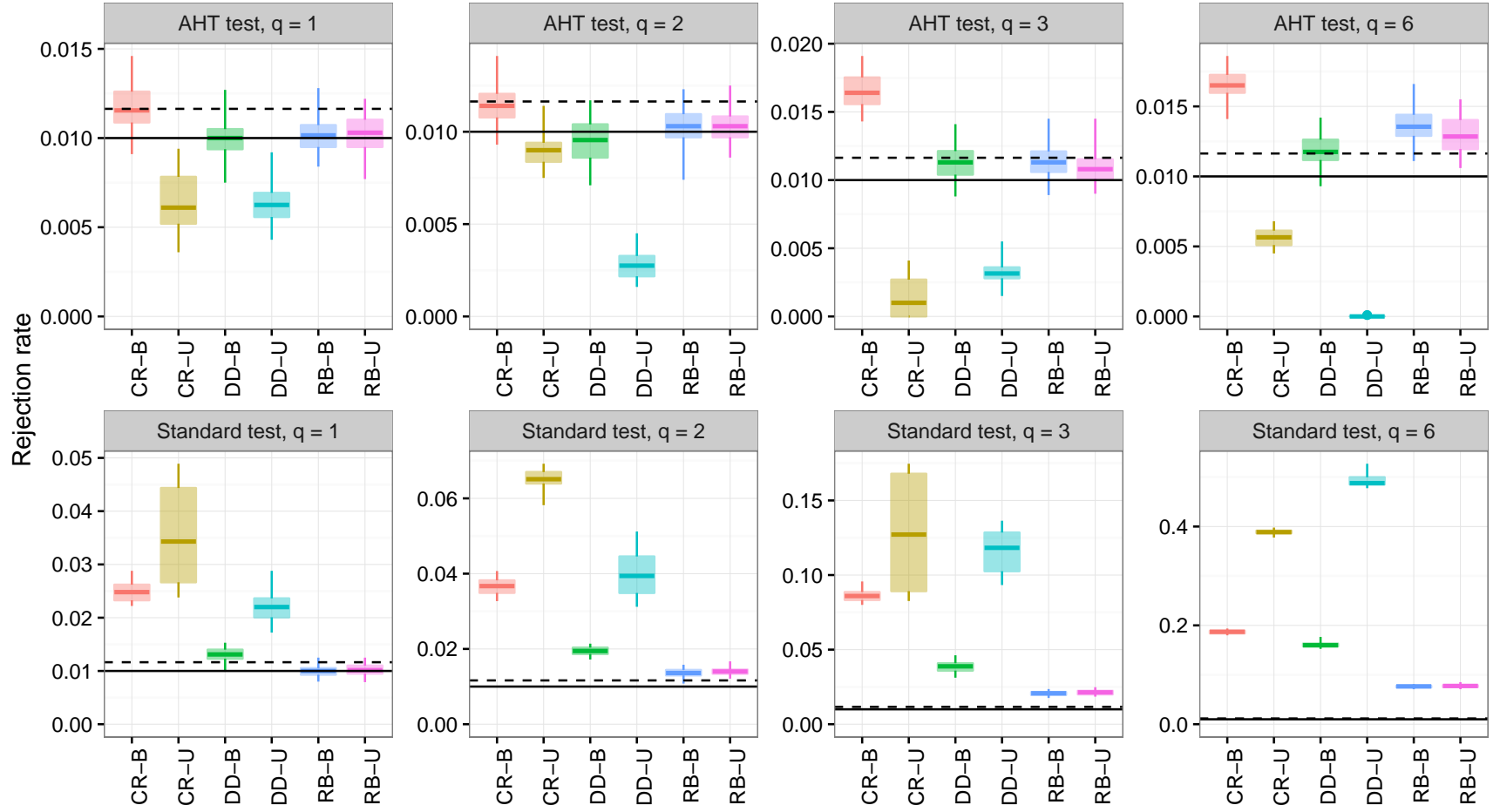


Figure S3: Rejection rates of AHT and standard tests, by study design and dimension of hypothesis (q) for $\alpha = .01$ and $m = 15$. CR = cluster-randomized design; DD = difference-in-differences design; RB = randomized block design; B = balanced; U = unbalanced.

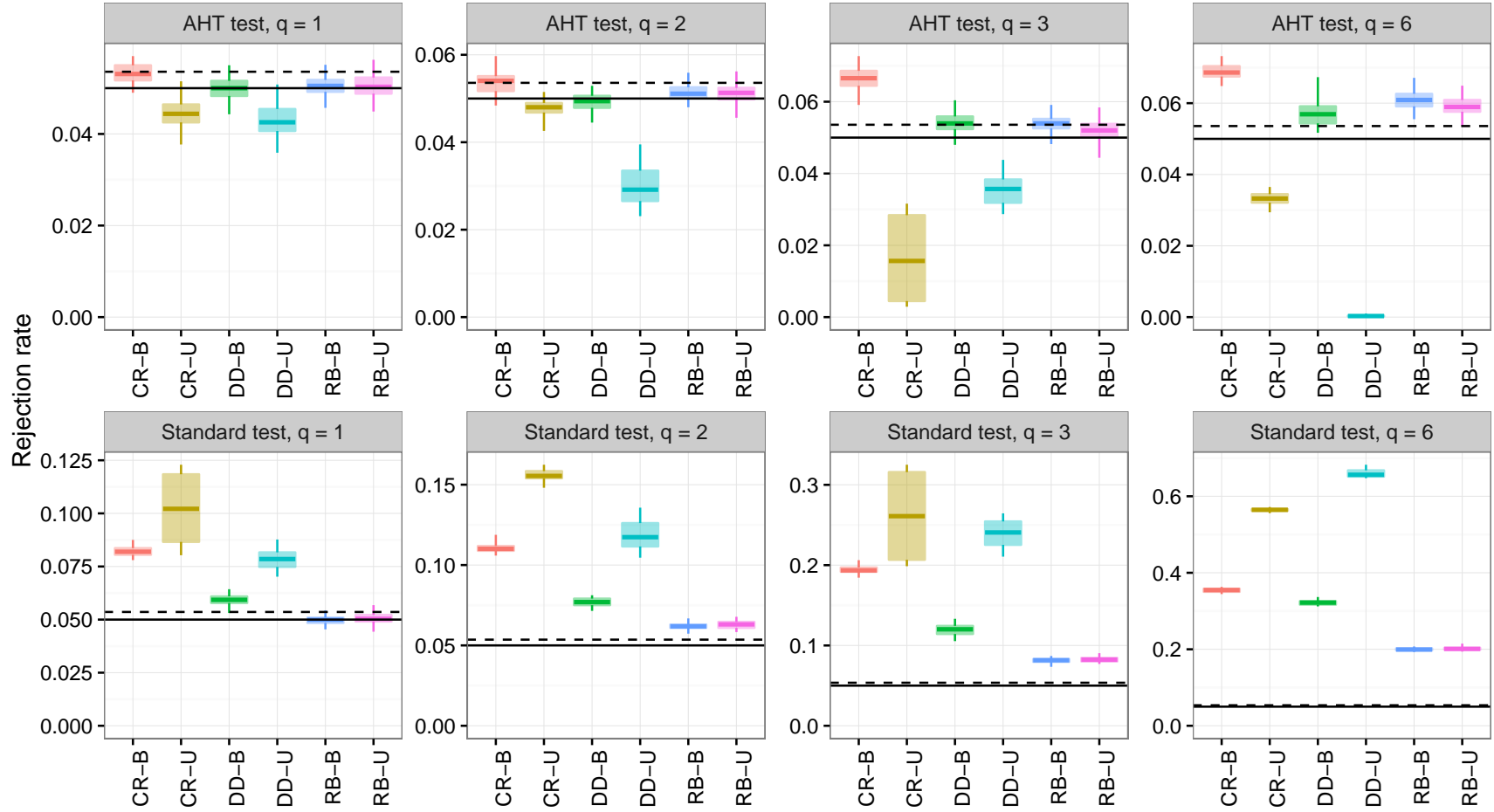


Figure S4: Rejection rates of AHT and standard tests, by study design and dimension of hypothesis (q) for $\alpha = .05$ and $m = 15$. CR = cluster-randomized design; DD = difference-in-differences design; RB = randomized block design; B = balanced; U = unbalanced.

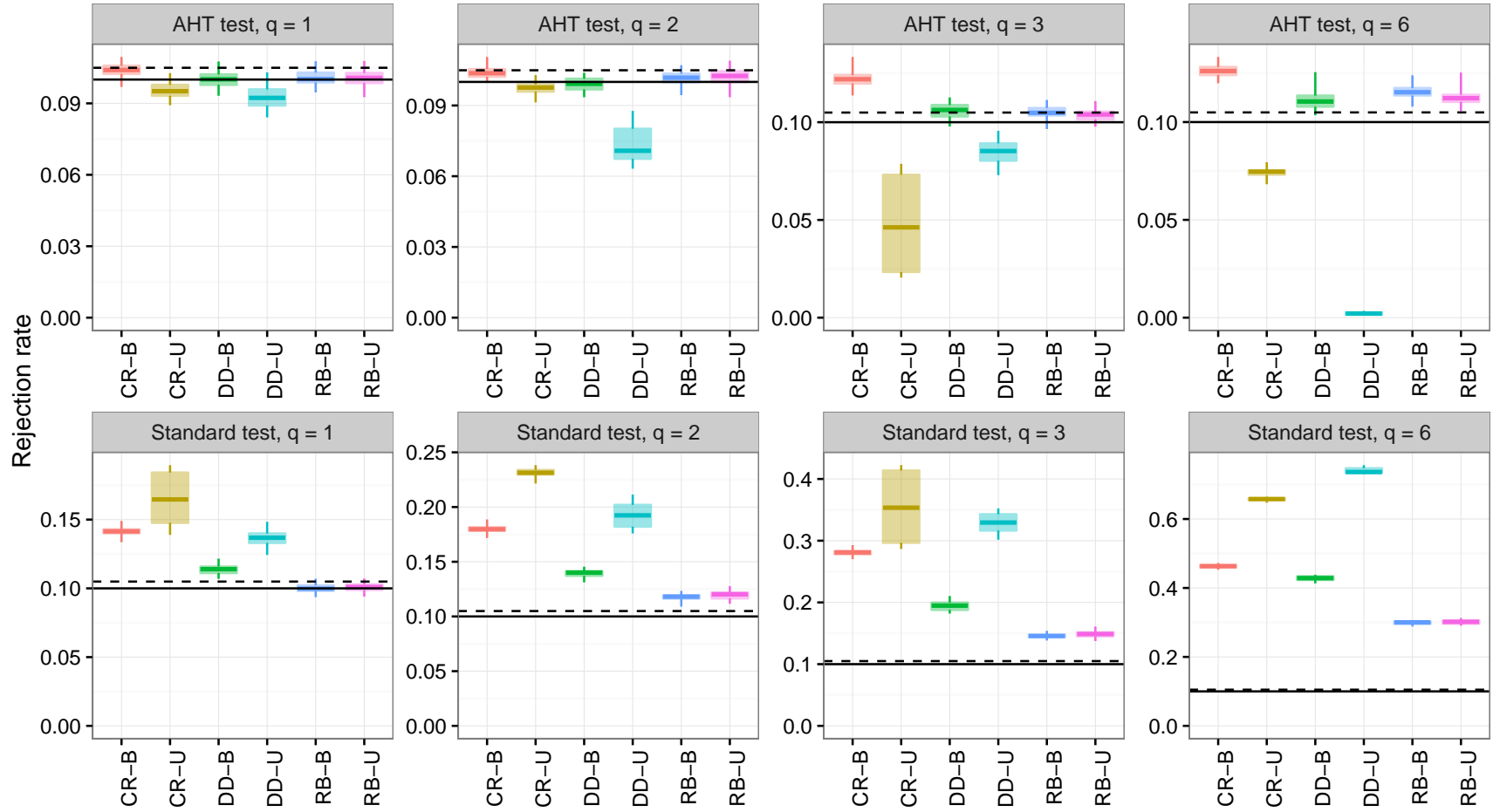


Figure S5: Rejection rates of AHT and standard tests, by study design and dimension of hypothesis (q) for $\alpha = .10$ and $m = 15$. CR = cluster-randomized design; DD = difference-in-differences design; RB = randomized block design; B = balanced; U = unbalanced.

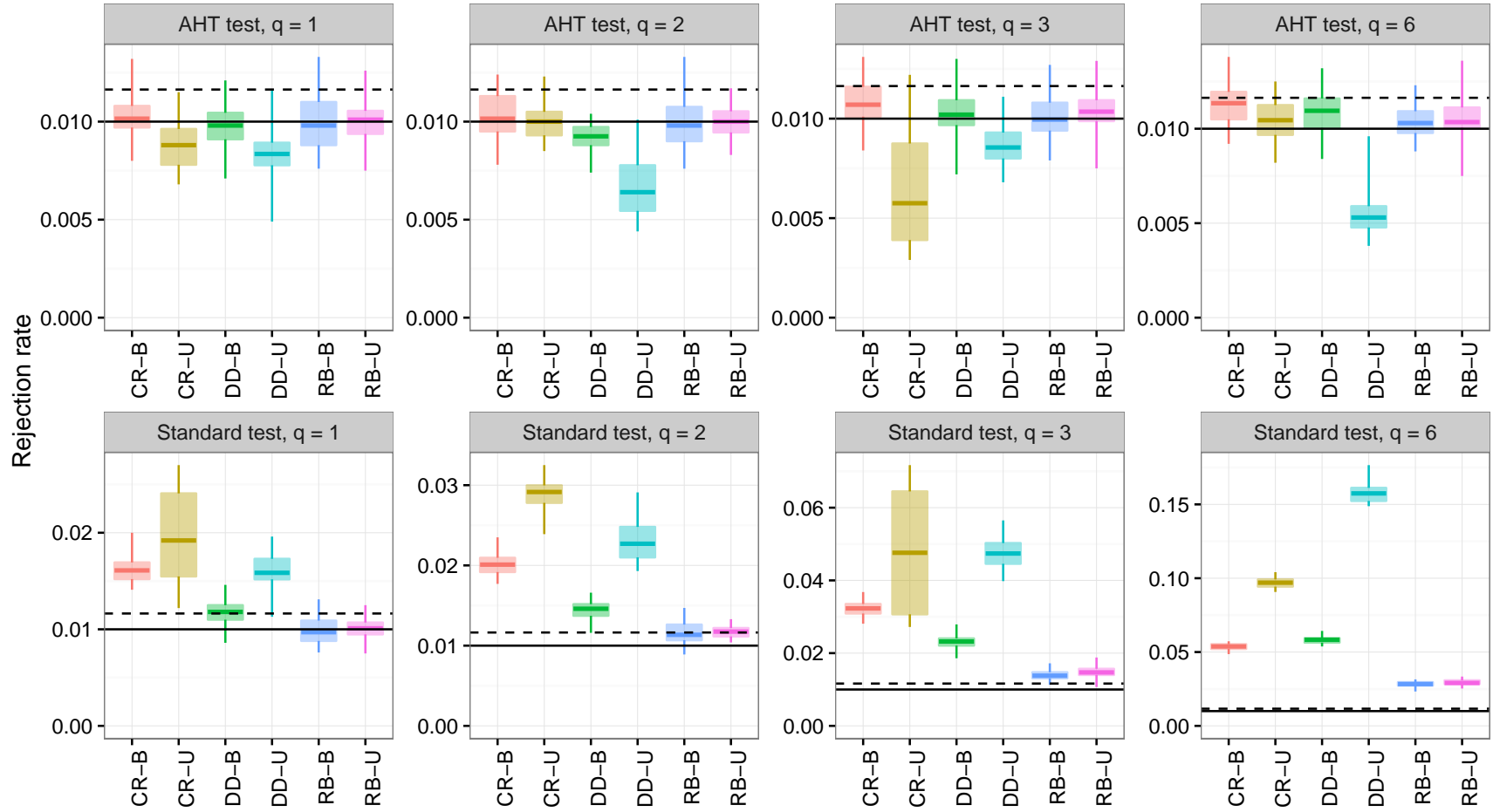


Figure S6: Rejection rates of AHT and standard tests, by study design and dimension of hypothesis (q) for $\alpha = .01$ and $m = 30$. CR = cluster-randomized design; DD = difference-in-differences design; RB = randomized block design; B = balanced; U = unbalanced.

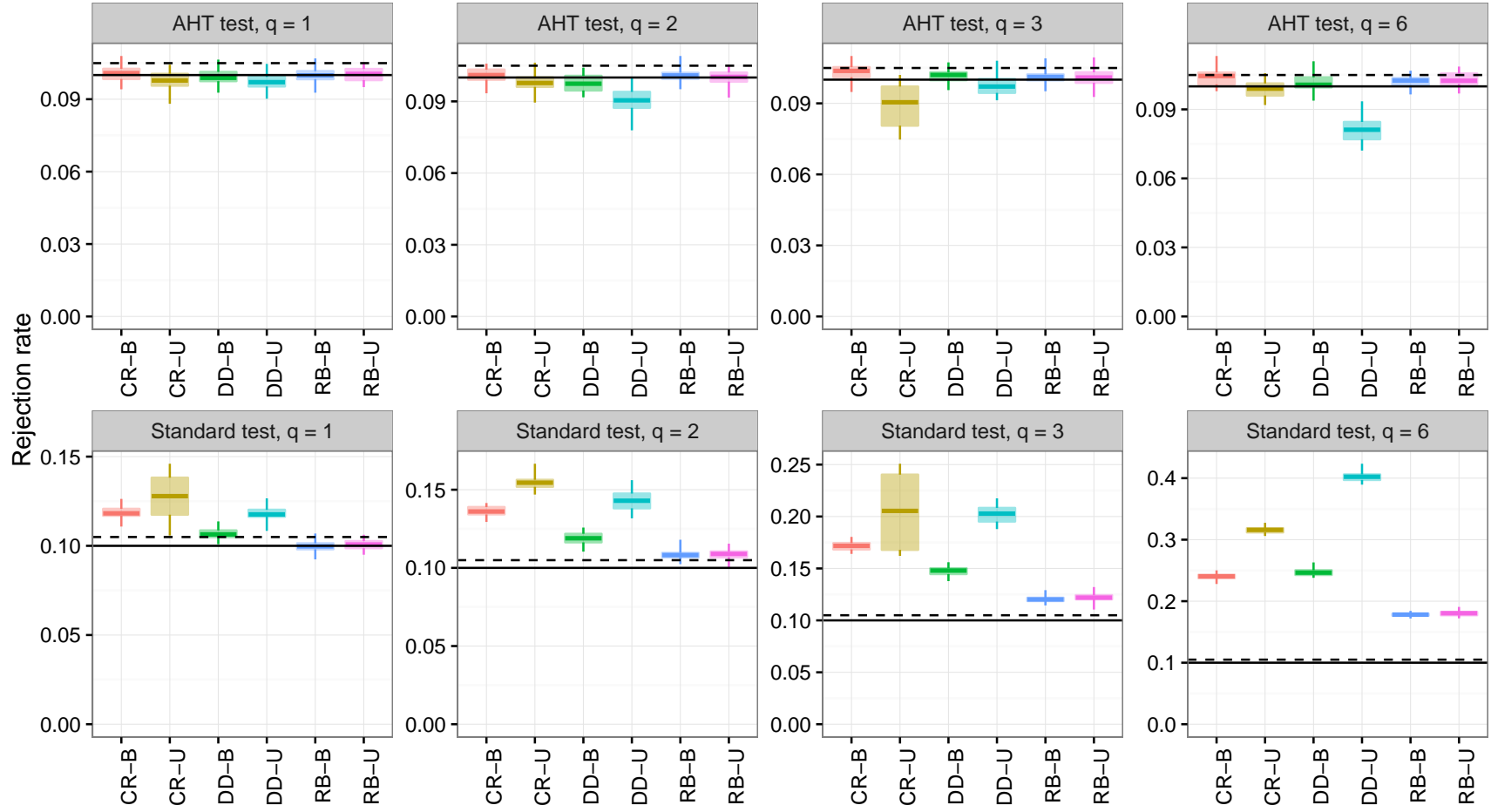


Figure S7: Rejection rates of AHT and standard tests, by study design and dimension of hypothesis (q) for $\alpha = .10$ and $m = 30$. CR = cluster-randomized design; DD = difference-in-differences design; RB = randomized block design; B = balanced; U = unbalanced.

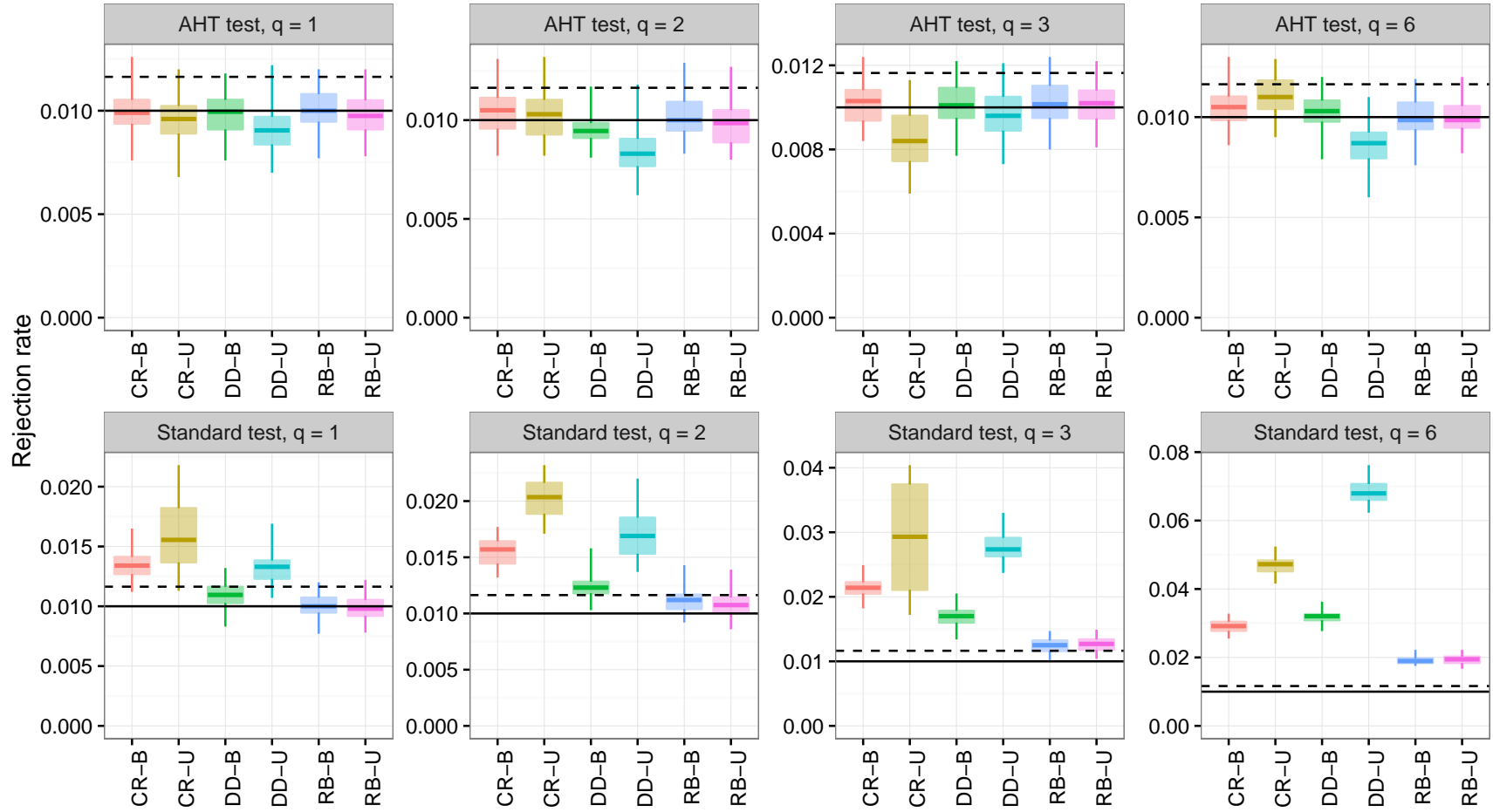


Figure S8: Rejection rates of AHT and standard tests, by study design and dimension of hypothesis (q) for $\alpha = .01$ and $m = 50$. CR = cluster-randomized design; DD = difference-in-differences design; RB = randomized block design; B = balanced; U = unbalanced.

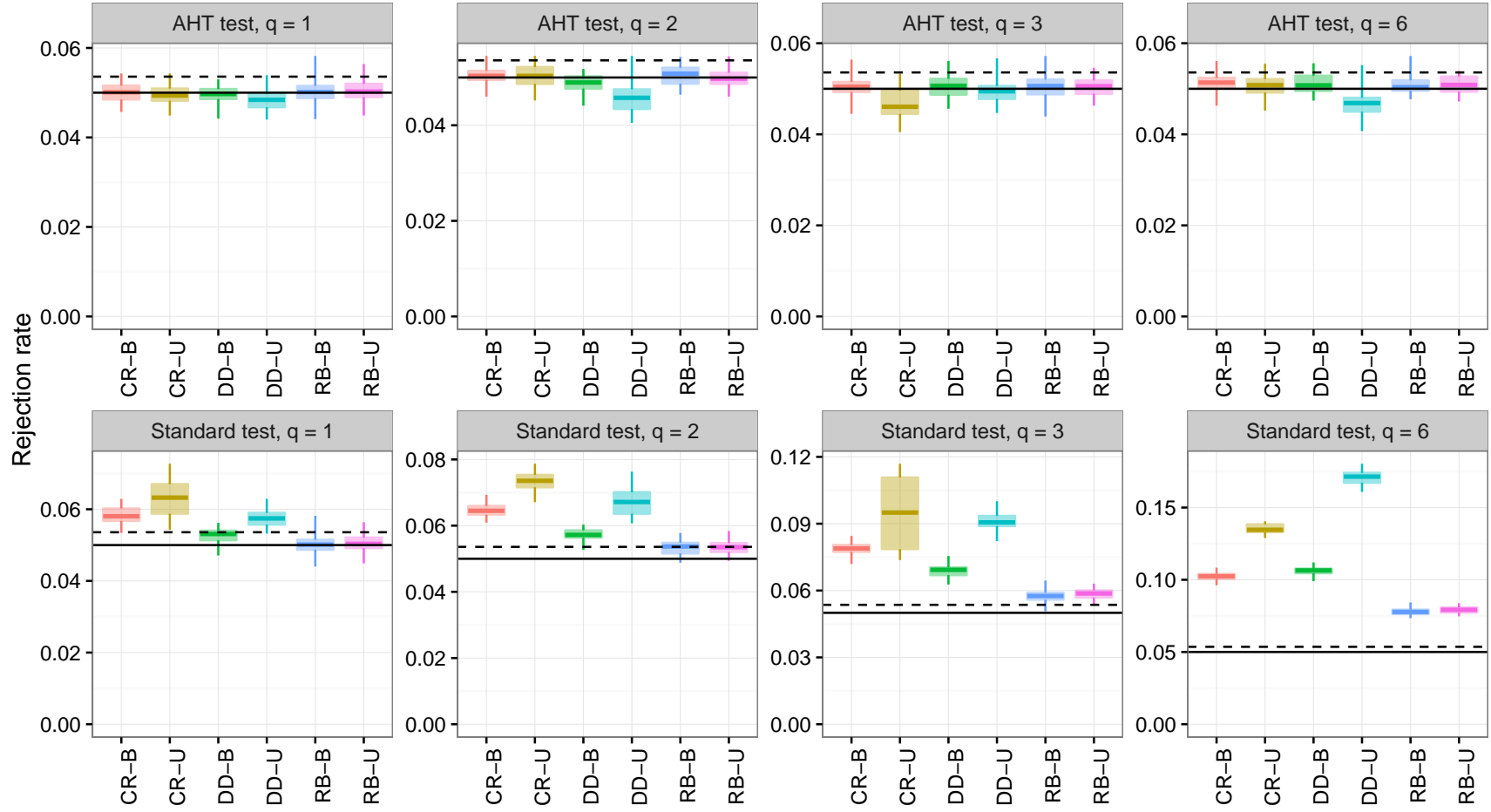


Figure S9: Rejection rates of AHT and standard tests, by study design and dimension of hypothesis (q) for $\alpha = .05$ and $m = 50$. CR = cluster-randomized design; DD = difference-in-differences design; RB = randomized block design; B = balanced; U = unbalanced.

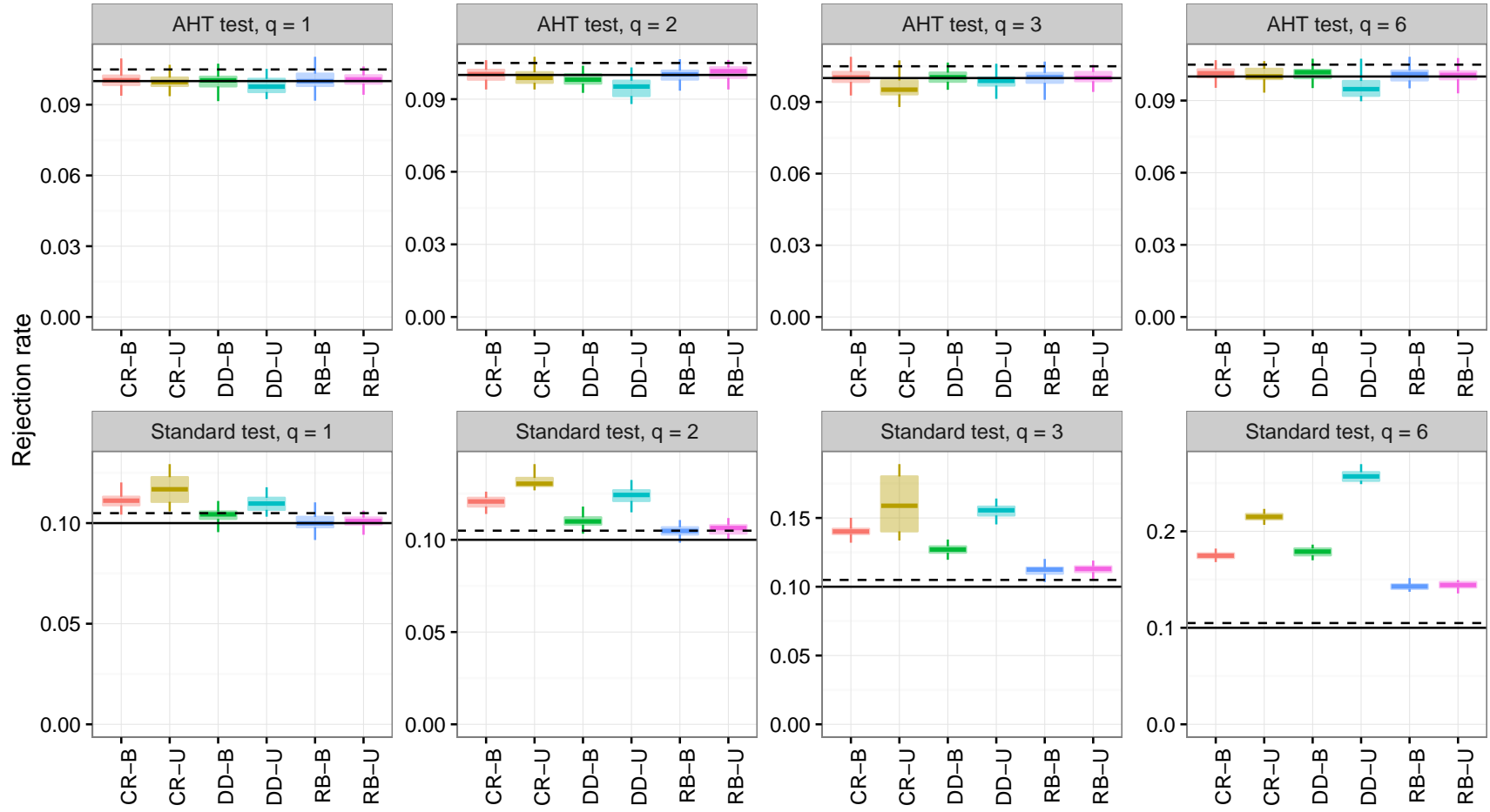


Figure S10: Rejection rates of AHT and standard tests, by study design and dimension of hypothesis (q) for $\alpha = .10$ and $m = 50$. CR = cluster-randomized design; DD = difference-in-differences design; RB = randomized block design; B = balanced; U = unbalanced.

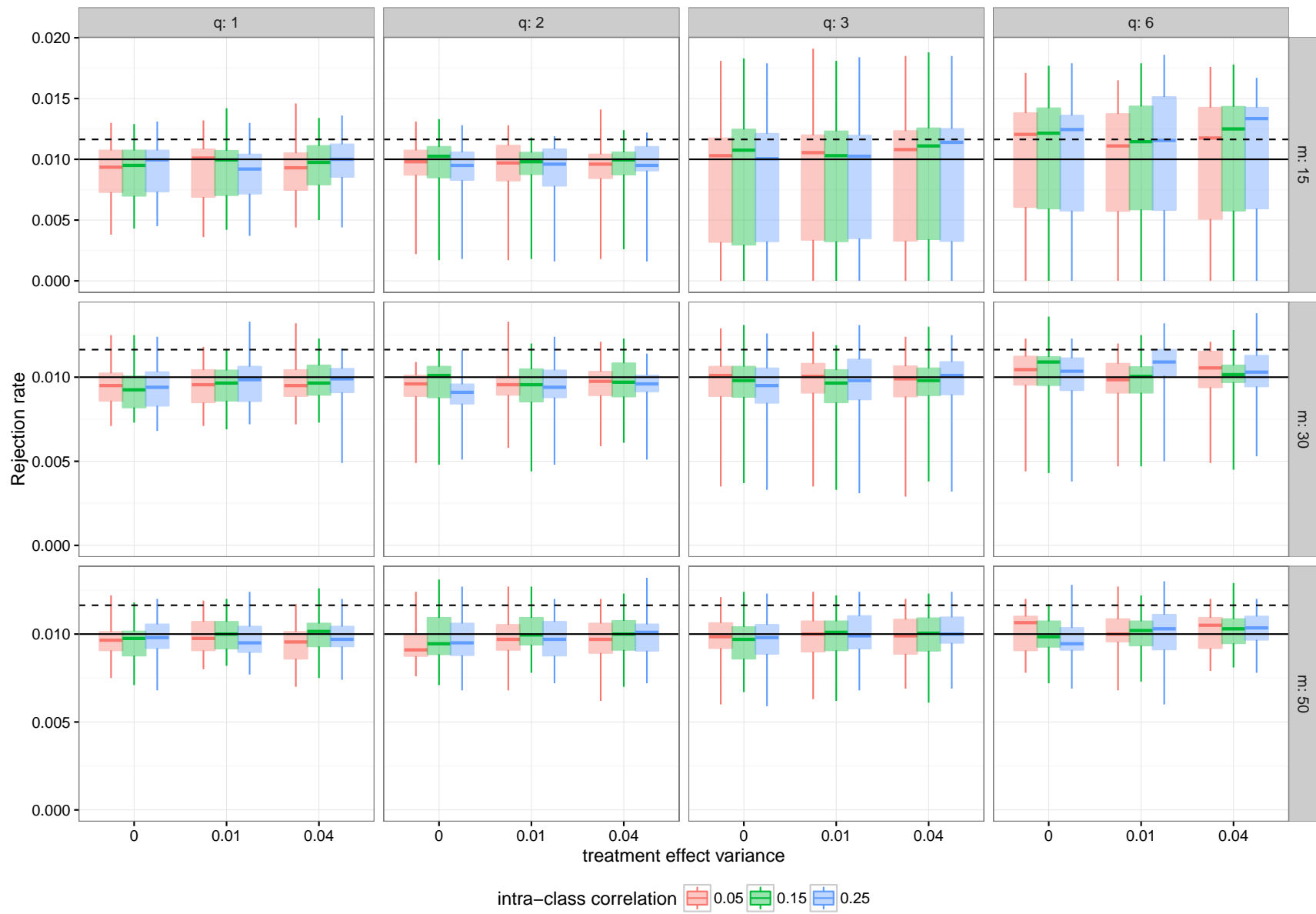


Figure S11: Rejection rates of AHT test, by treatment effect variance and intra-class correlation for $\alpha = .01$.

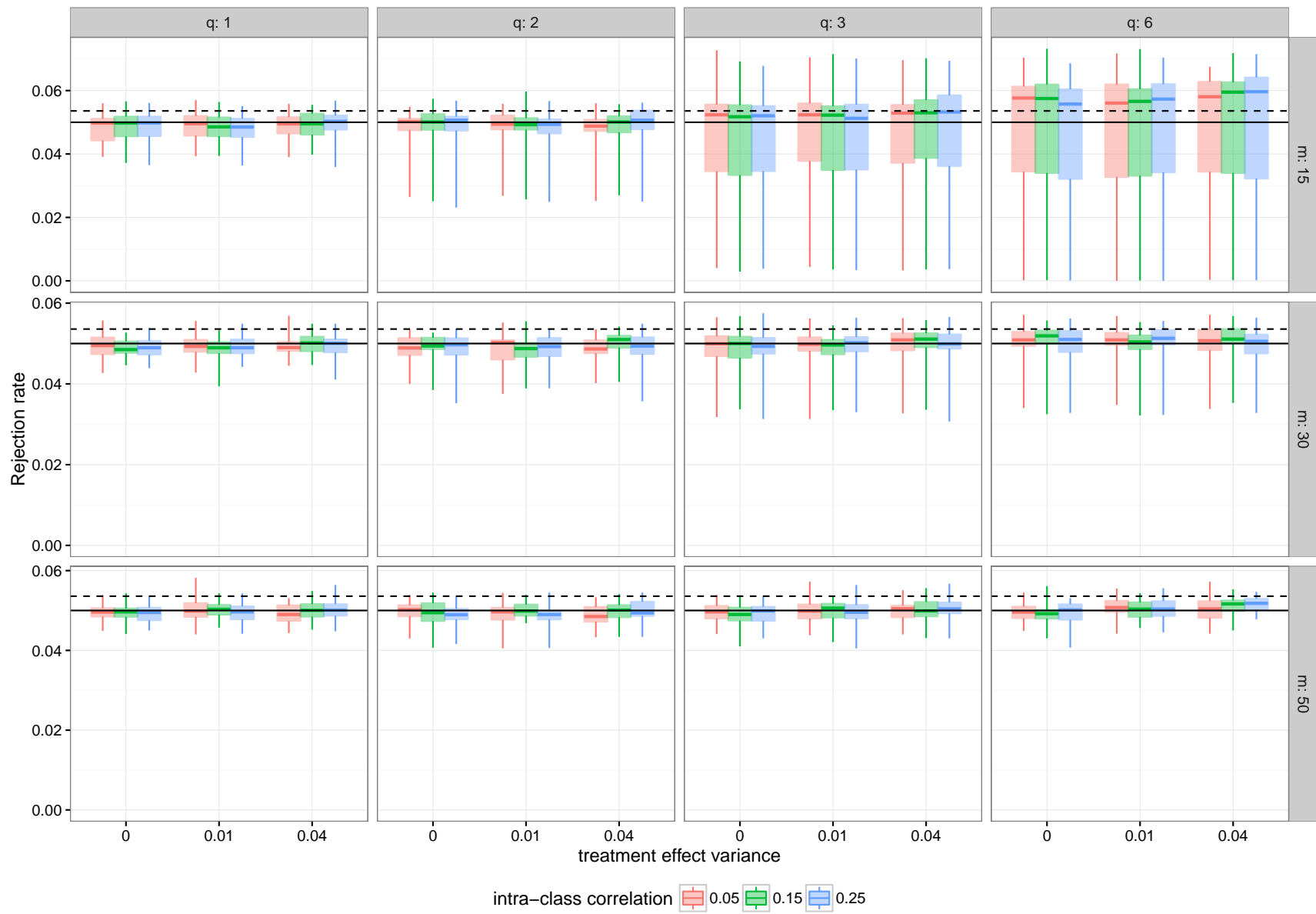


Figure S12: Rejection rates of AHT test, by treatment effect variance and intra-class correlation for $\alpha = .05$.

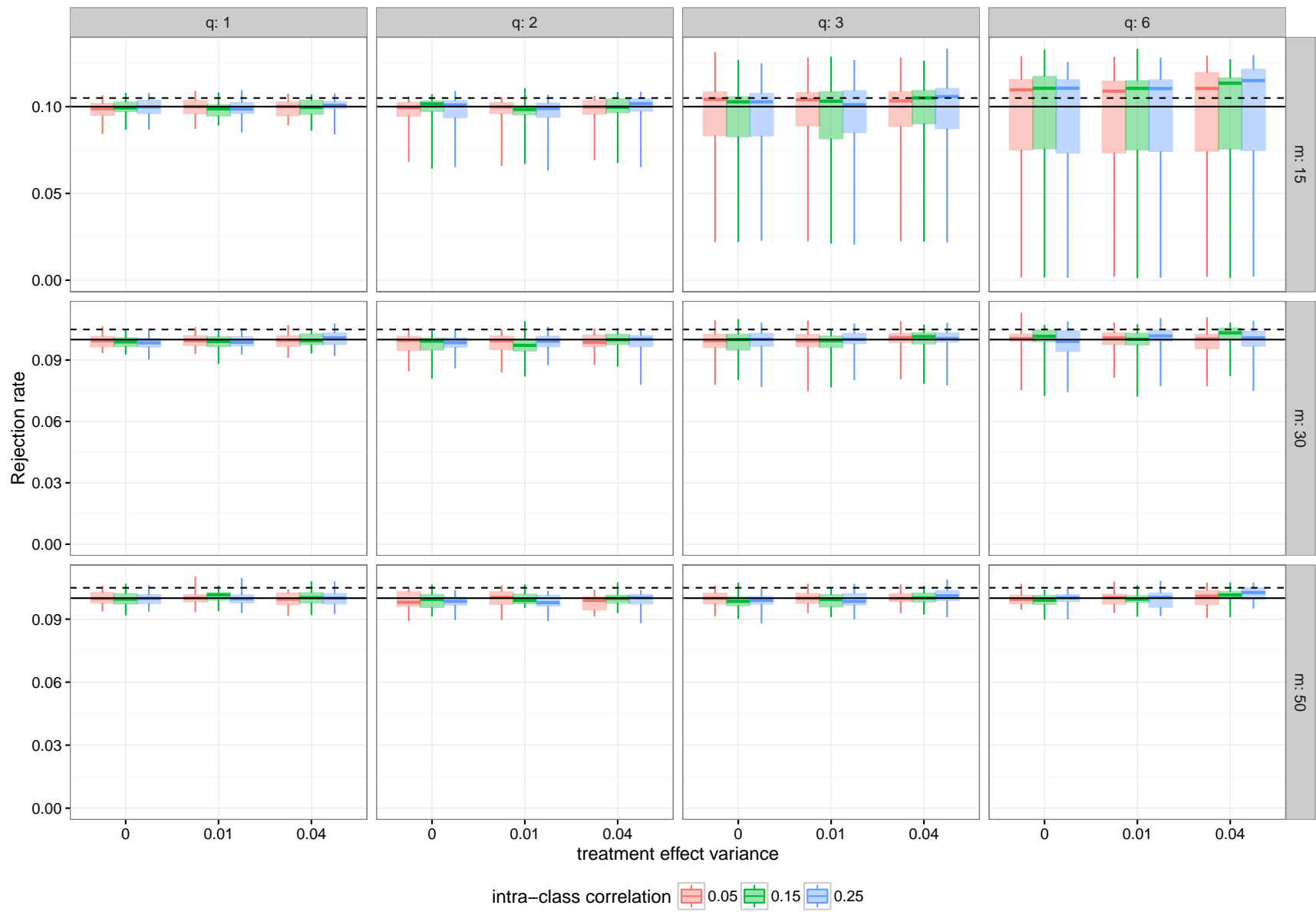


Figure S13: Rejection rates of AHT test, by treatment effect variance and intra-class correlation for $\alpha = .10$.