Difference of Total and main effect estimation when with interaction Chi CS n.y: 100 n.y: 100 n.y: 100 rho.y: 0.1 rho.y: 0.2 rho.y: 0.3 10-5 n.y: 100 n.y: 100 n.y: 100 rho.y: 0.6 rho.y: 0.4 rho.y: 0.5 method 10value GCTA_diff proposed_diff 5 interaction n.y: 100 n.y: 100 n.y: 100 rho.y: 0.7 rho.y: 0.8 rho.y: 0.9 10 -5 -GCTA_diffproposed_diffnteraction GCTA_diffproposed_diffinteraction GCTA_diffproposed_diffinteraction method

Difference of Total and main effect estimation when with interaction Chi CS n.y: 200 n.y: 200 n.y: 200 rho.y: 0.1 rho.y: 0.2 rho.y: 0.3 10-5 -0 n.y: 200 n.y: 200 n.y: 200 rho.y: 0.4 rho.y: 0.5 rho.y: 0.6 method 10value GCTA_diff proposed_diff 5 interaction 0 n.y: 200 n.y: 200 n.y: 200 rho.y: 0.7 rho.y: 0.8 rho.y: 0.9 10-5 -GCTA_difforoposed_diffnteraction GCTA_diffproposed_diffinteraction GCTA_diffproposed_diffinteraction method

Difference of Total and main effect estimation when with interaction Chi CS n.y: 300 n.y: 300 n.y: 300 rho.y: 0.1 rho.y: 0.2 rho.y: 0.3 10-5 -0 n.y: 300 n.y: 300 n.y: 300 rho.y: 0.4 rho.y: 0.5 rho.y: 0.6 method 10value GCTA_diff proposed_diff 5 interaction 0 n.y: 300 n.y: 300 n.y: 300 rho.y: 0.7 rho.y: 0.8 rho.y: 0.9 10-5 -0 -GCTA_difforoposed_diffnteraction GCTA_diffproposed_diffinteraction GCTA_diffproposed_diffnteraction method

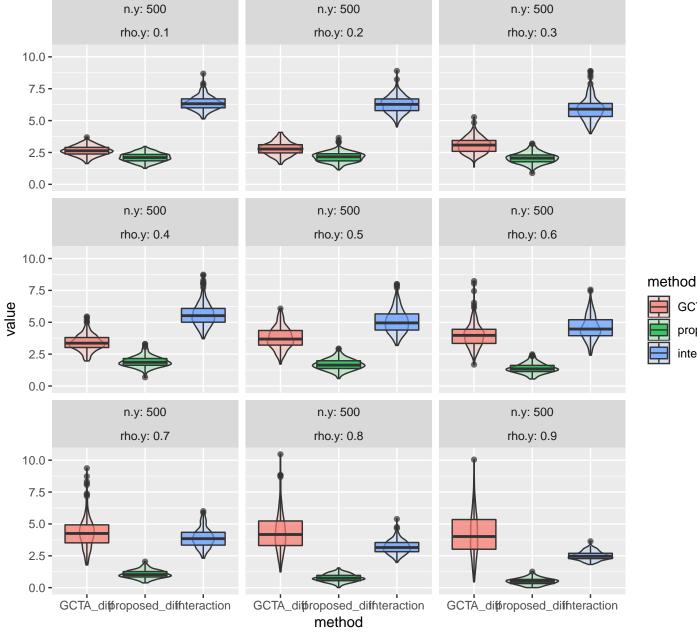
Difference of Total and main effect estimation when with interaction Chi CS n.y: 400 n.y: 400 n.y: 400 rho.y: 0.1 rho.y: 0.2 rho.y: 0.3 15**-**10-5 -0 n.y: 400 n.y: 400 n.y: 400 rho.y: 0.4 rho.y: 0.5 rho.y: 0.6 15 method 10 value GCTA_diff proposed_diff 5 interaction 0 n.y: 400 n.y: 400 n.y: 400 rho.y: 0.7 rho.y: 0.8 rho.y: 0.9 15 -10-0 -

GCTA_difforoposed_diffnteraction

method

GCTA_diffproposed_diffinteraction

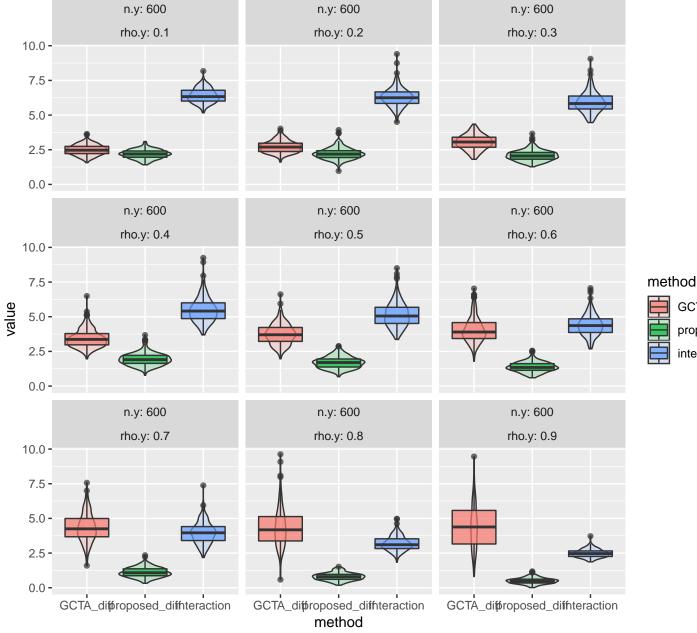
GCTA_difforoposed_diffinteraction



GCTA_diff

interaction

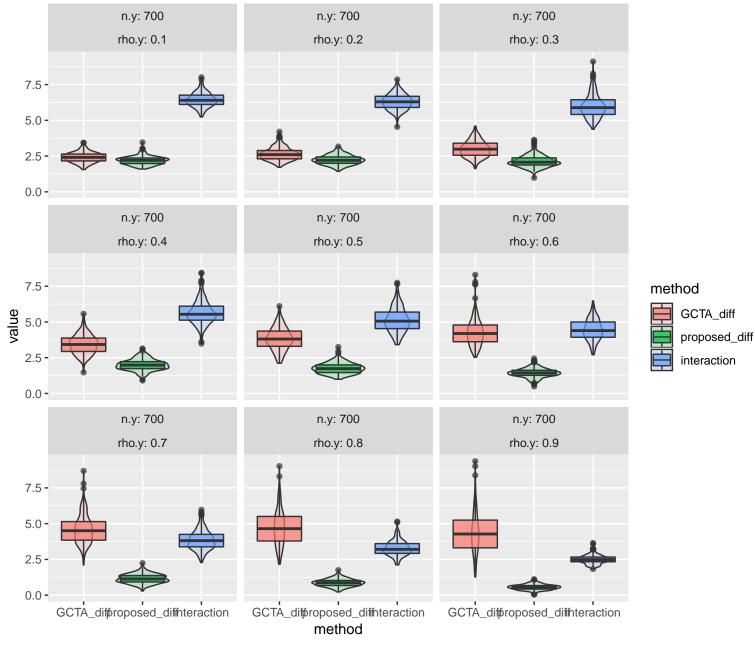
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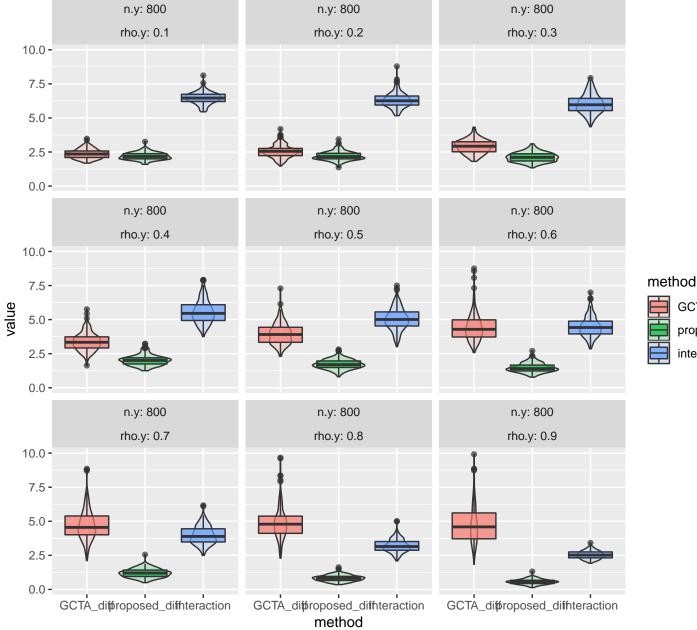


GCTA_diff

interaction

proposed_diff





GCTA_diff

interaction

proposed_diff