

- Blocked 2 level models
- Cluster 2 level
- Blocked 3 level
- Cluster 3 level
- Blocked cluster

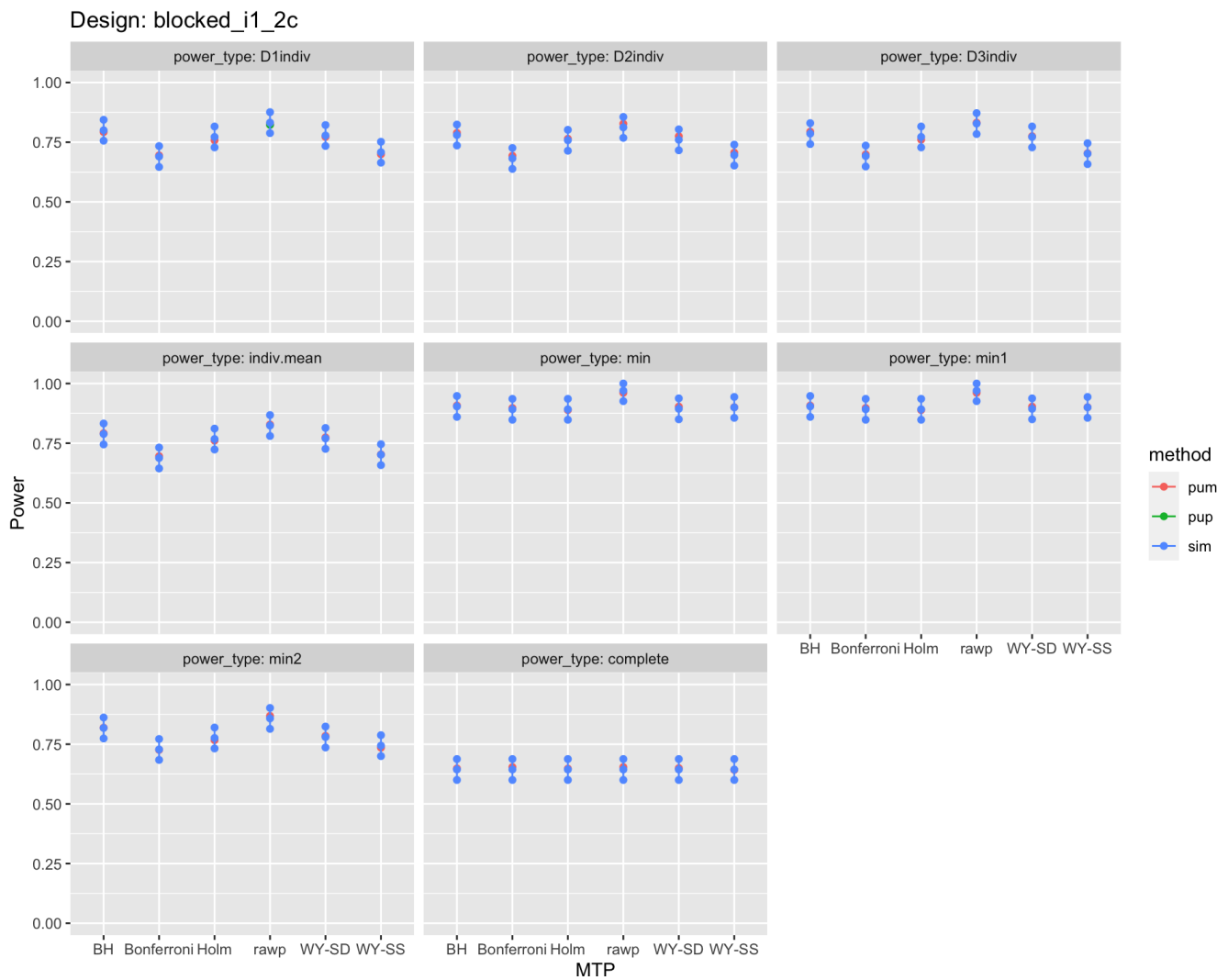
Validate Power: Westfall-Young

Kristin Porter, Zarni Htet, Kristen Hunter

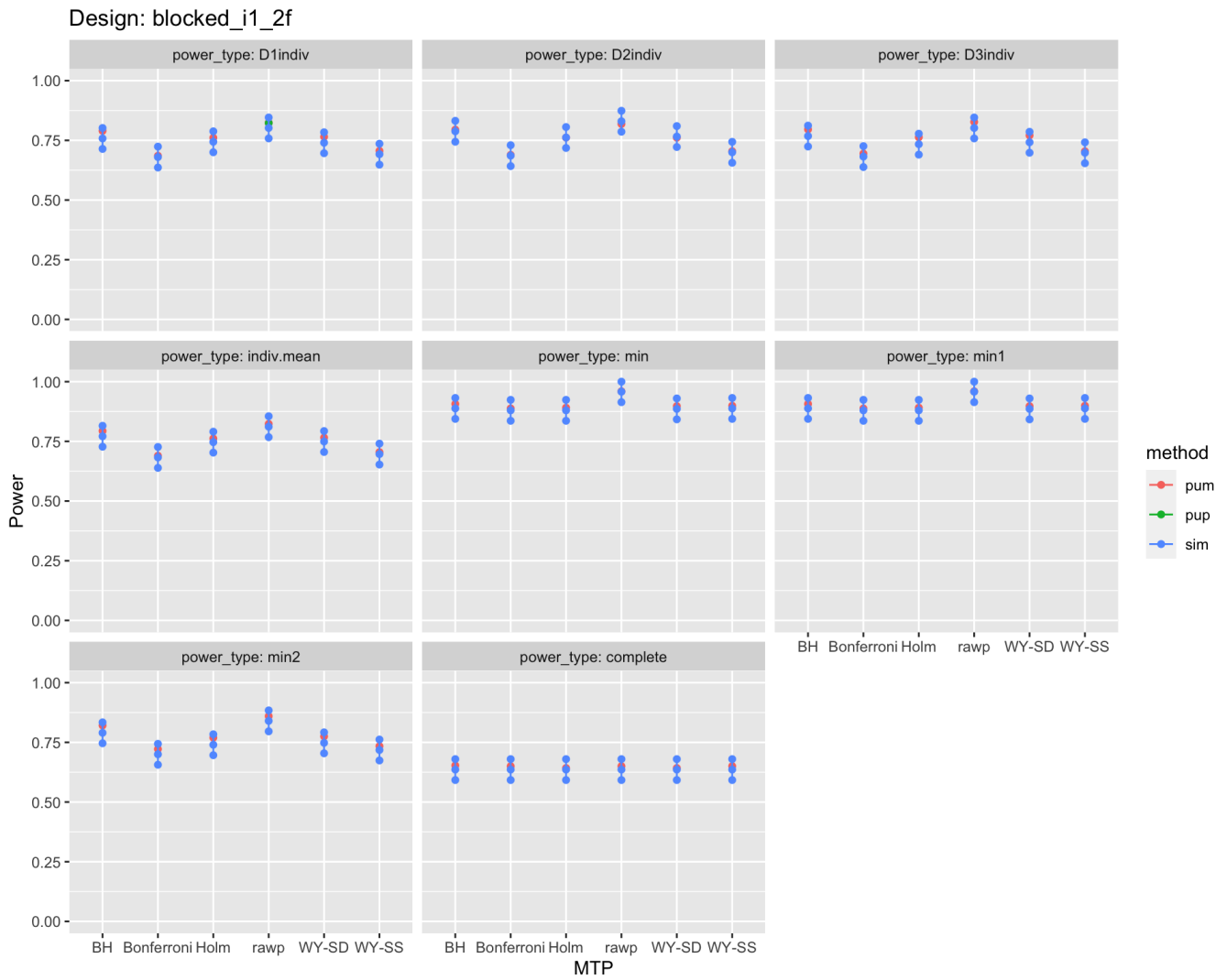
June 15, 2021

Blocked 2 level models

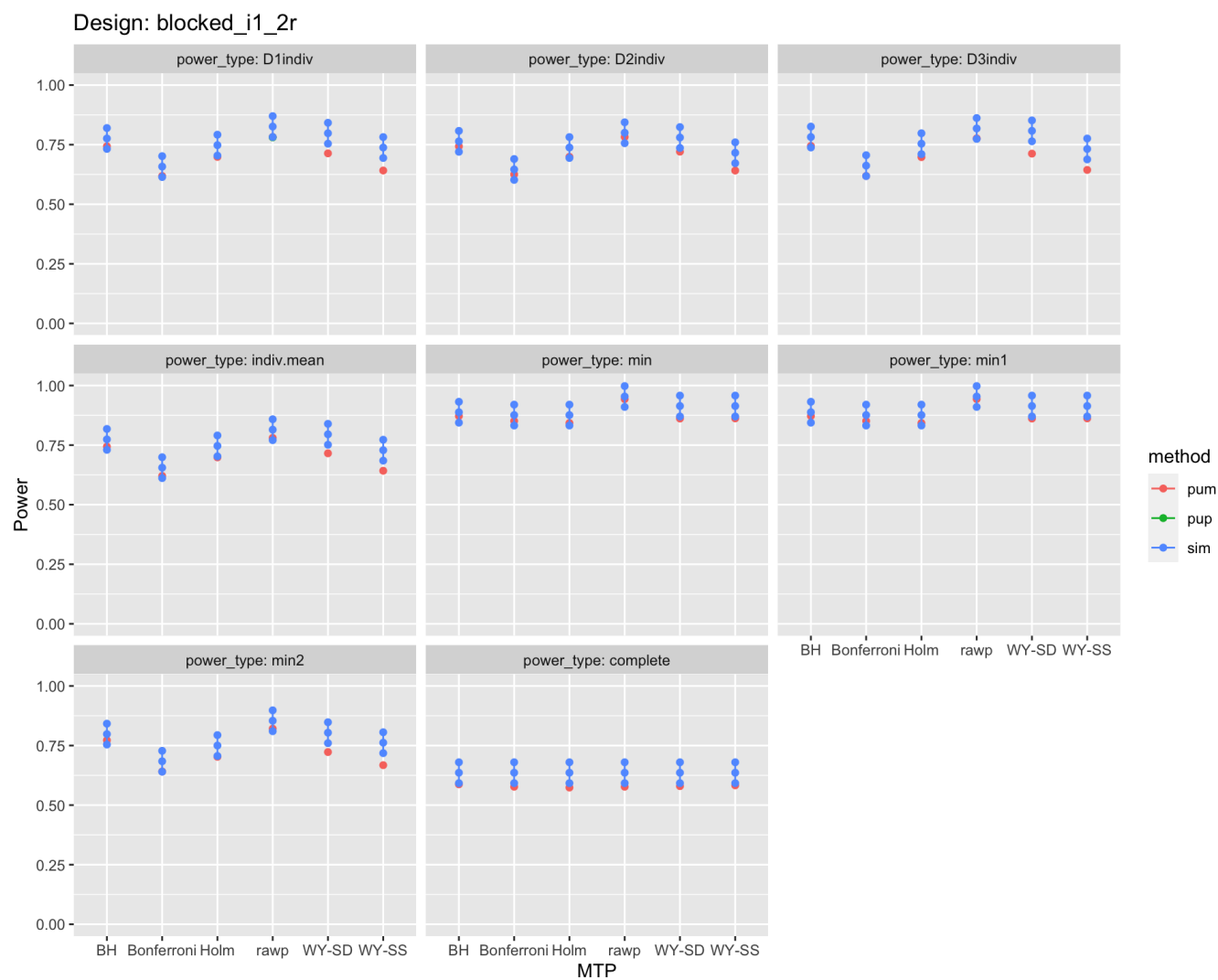
Constant effects



Fixed effects



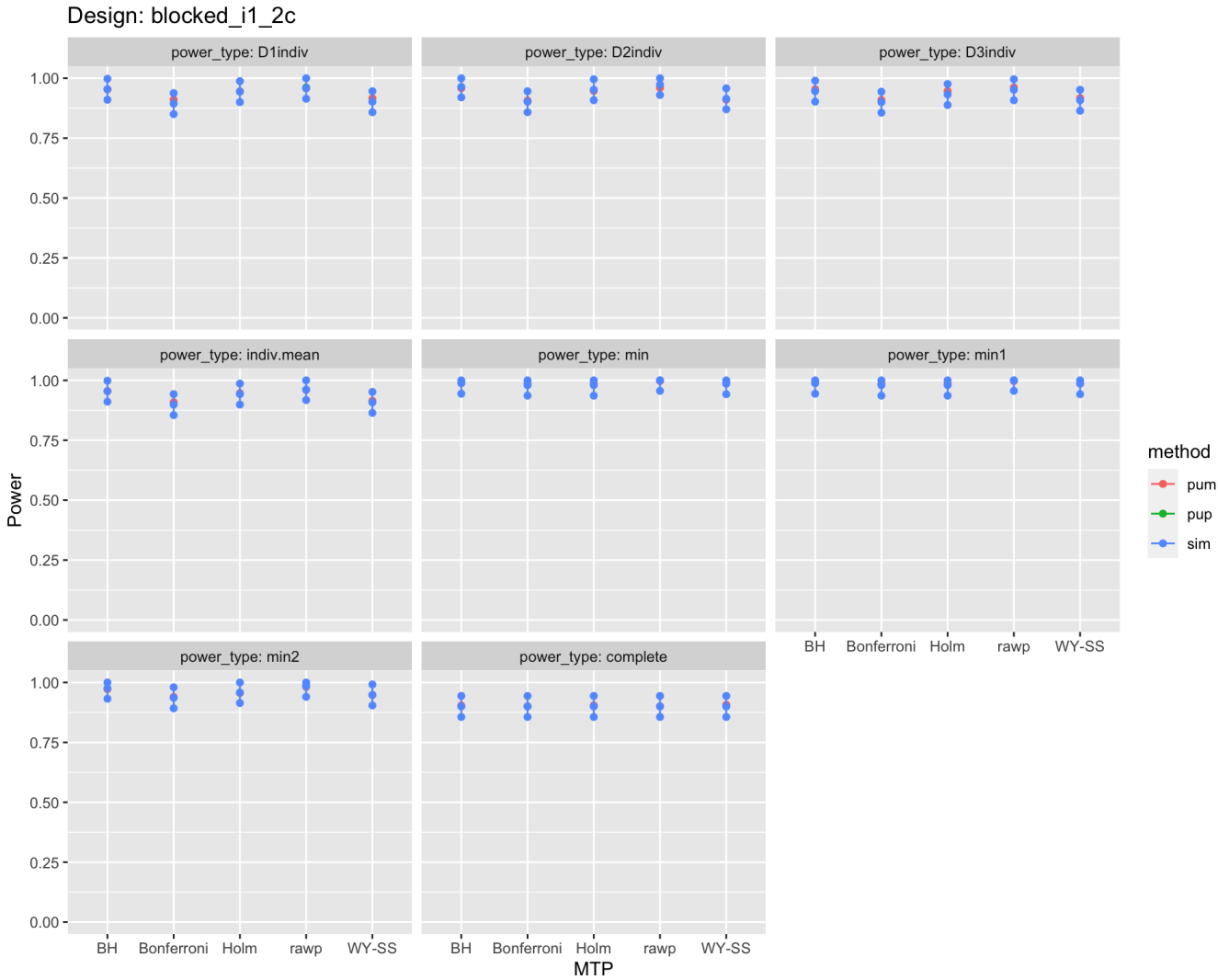
Random effects



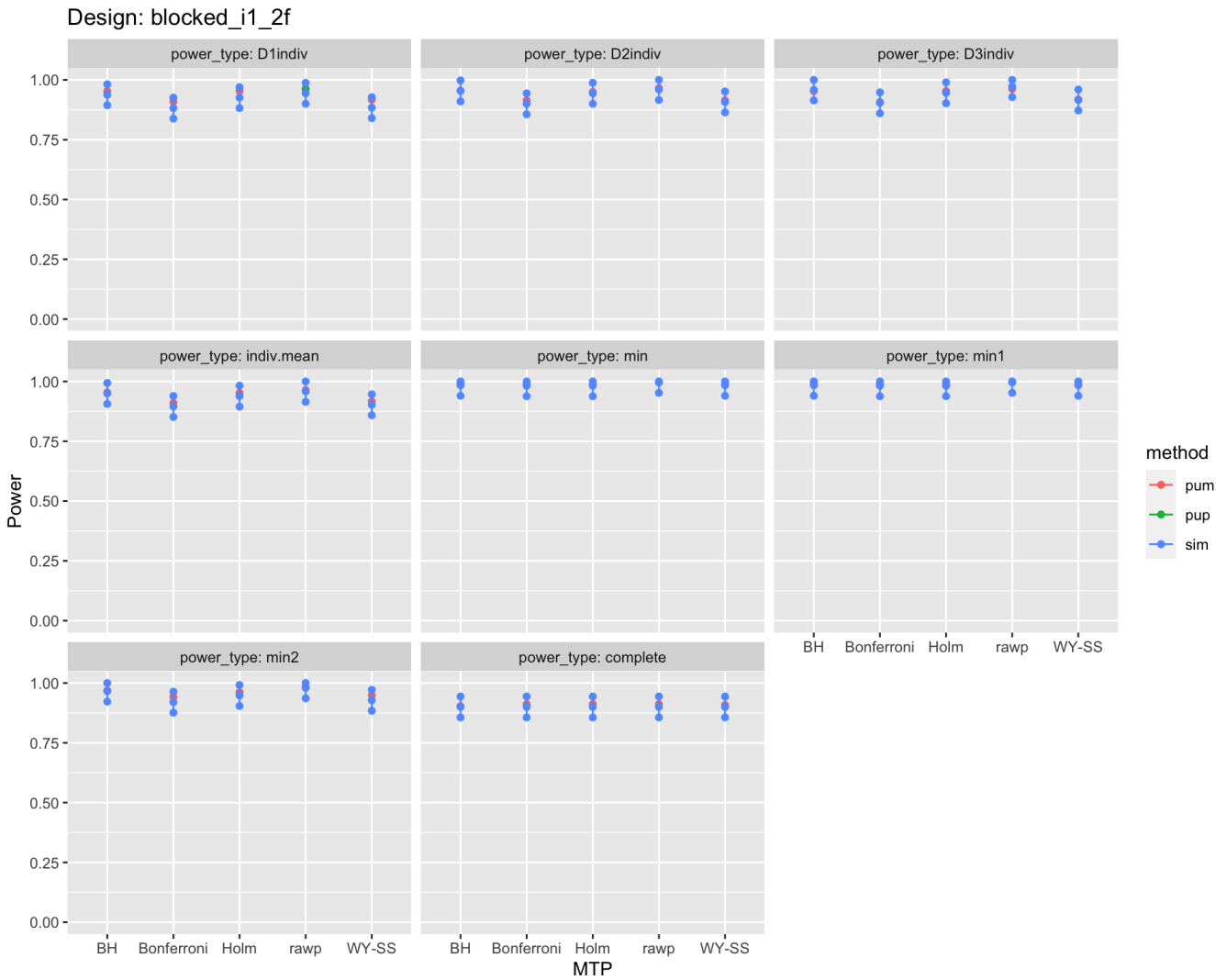
No discrepancy

Large $B = 10000$ and large $J = 100$

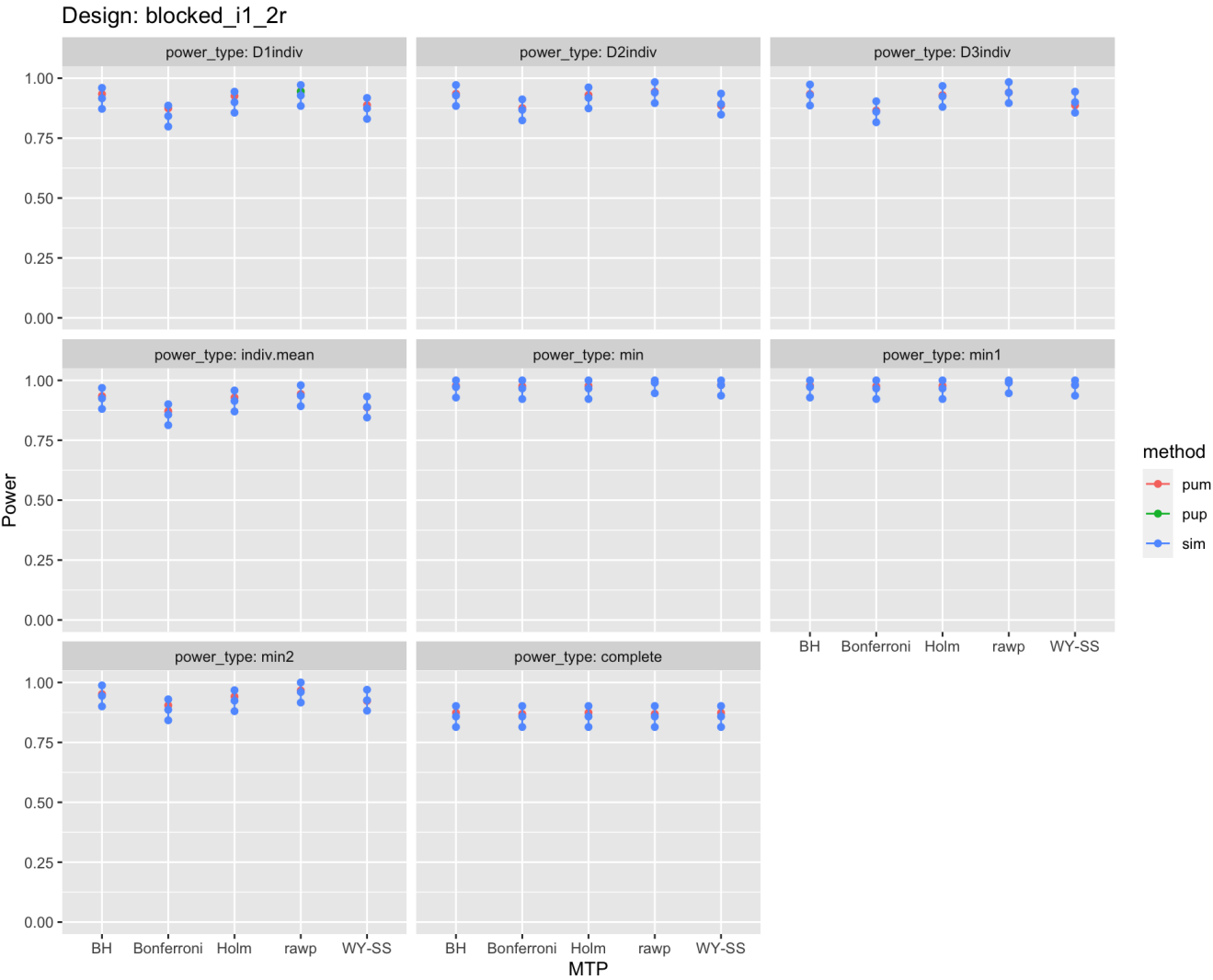
Constant effects



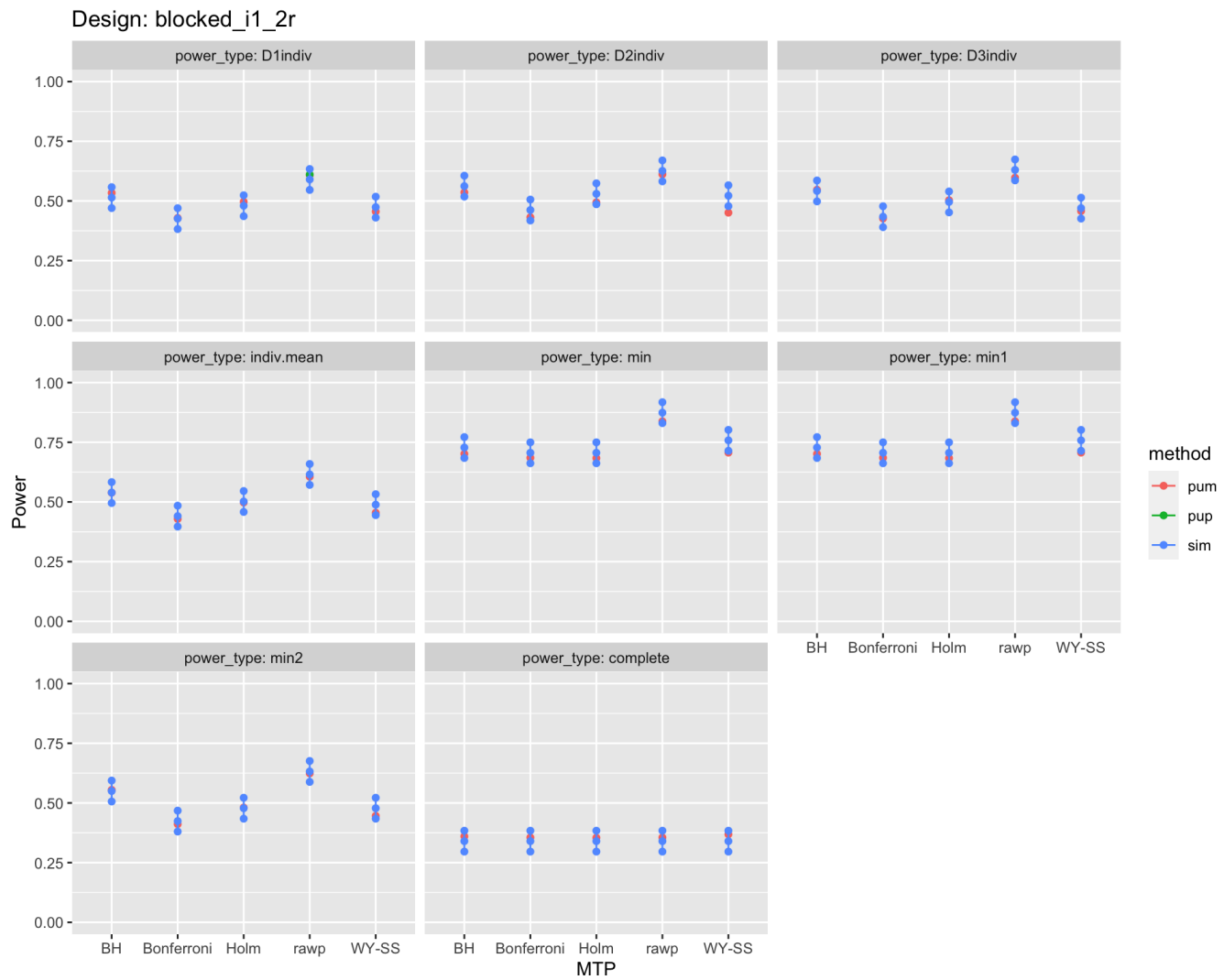
Fixed effects



Random effects

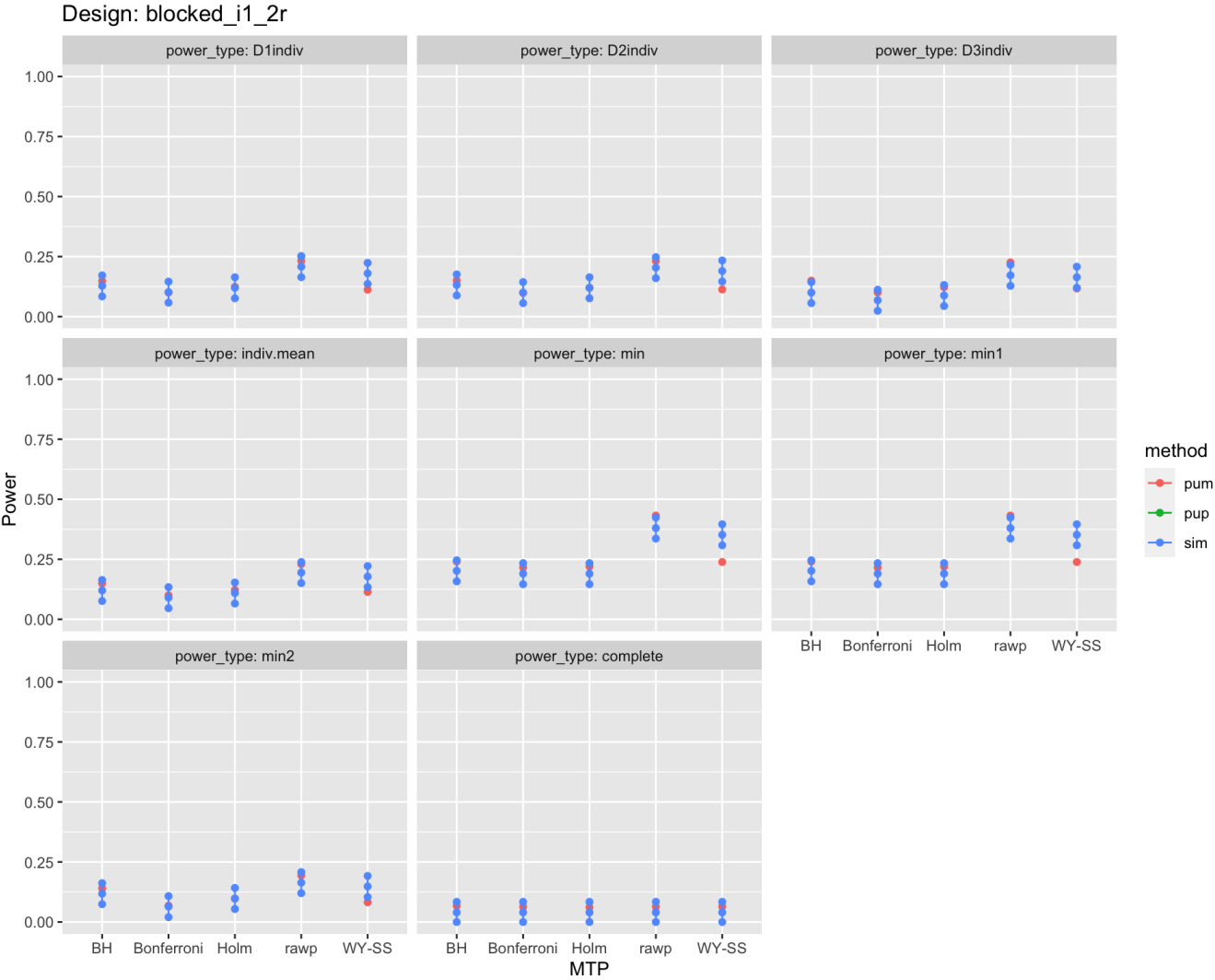


Random effects with large $B = 10000$ and large $J = 100$ with lower power

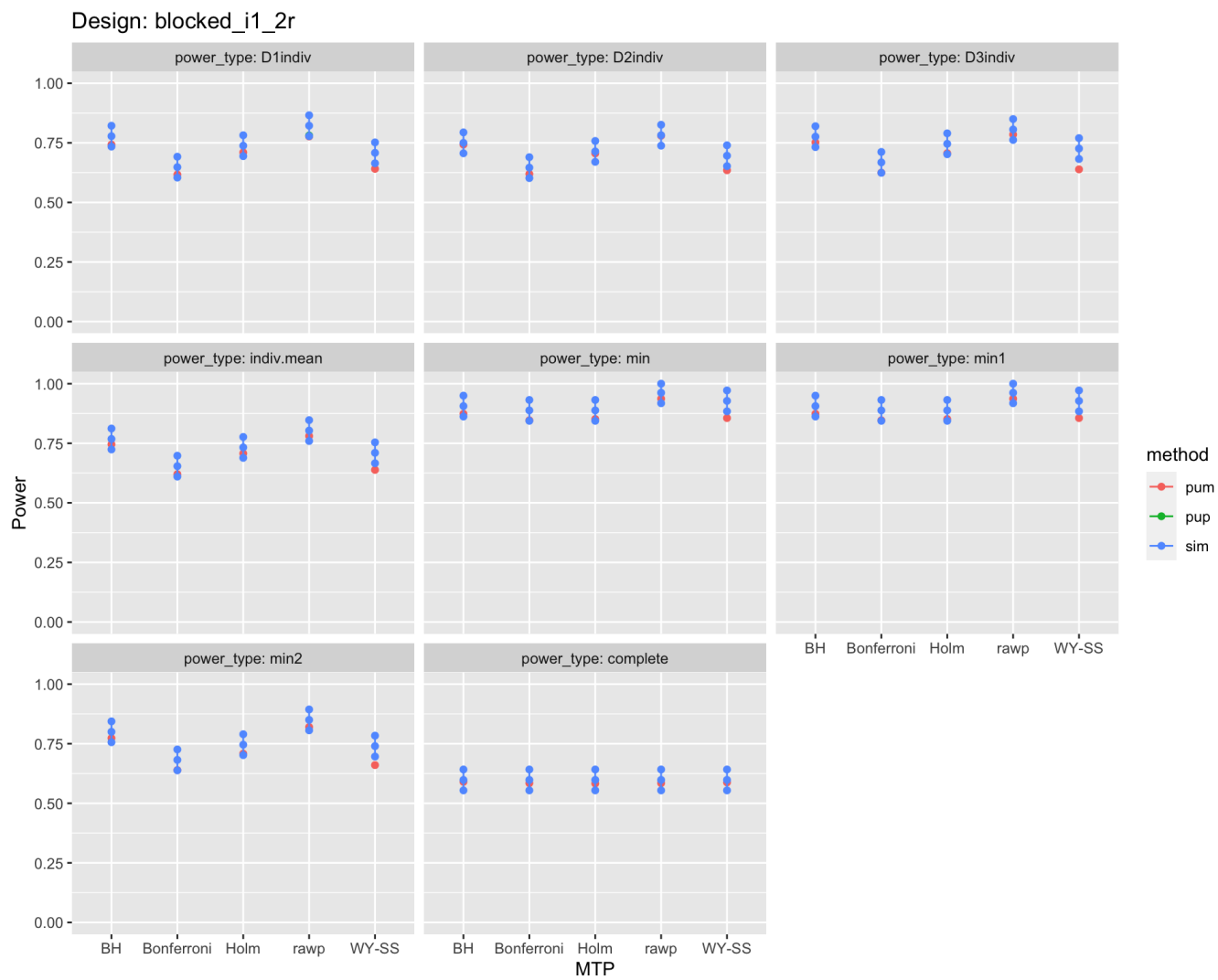


Different combinations of B and J

Random effects with small $J = 15$ and medium $B = 3000$

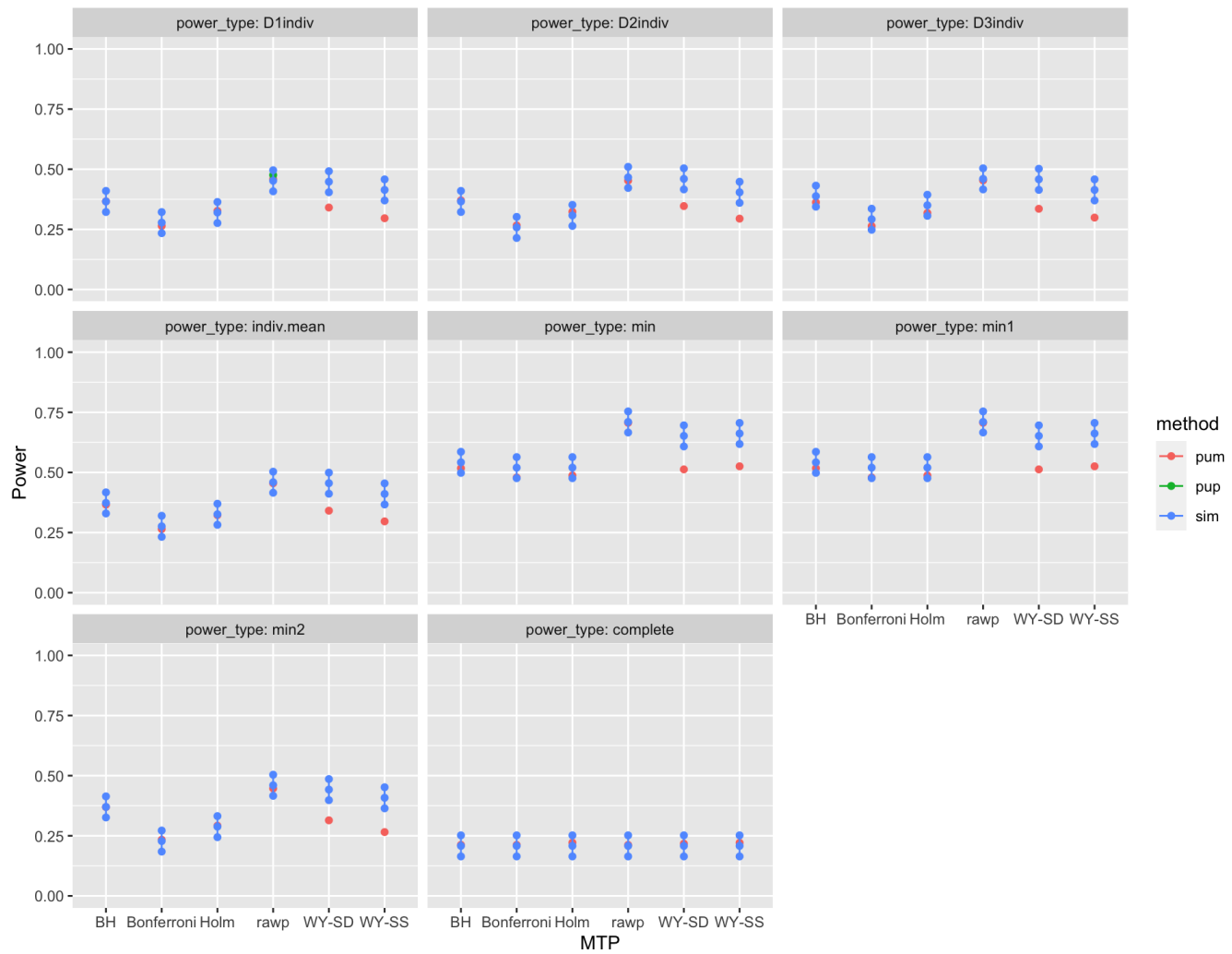


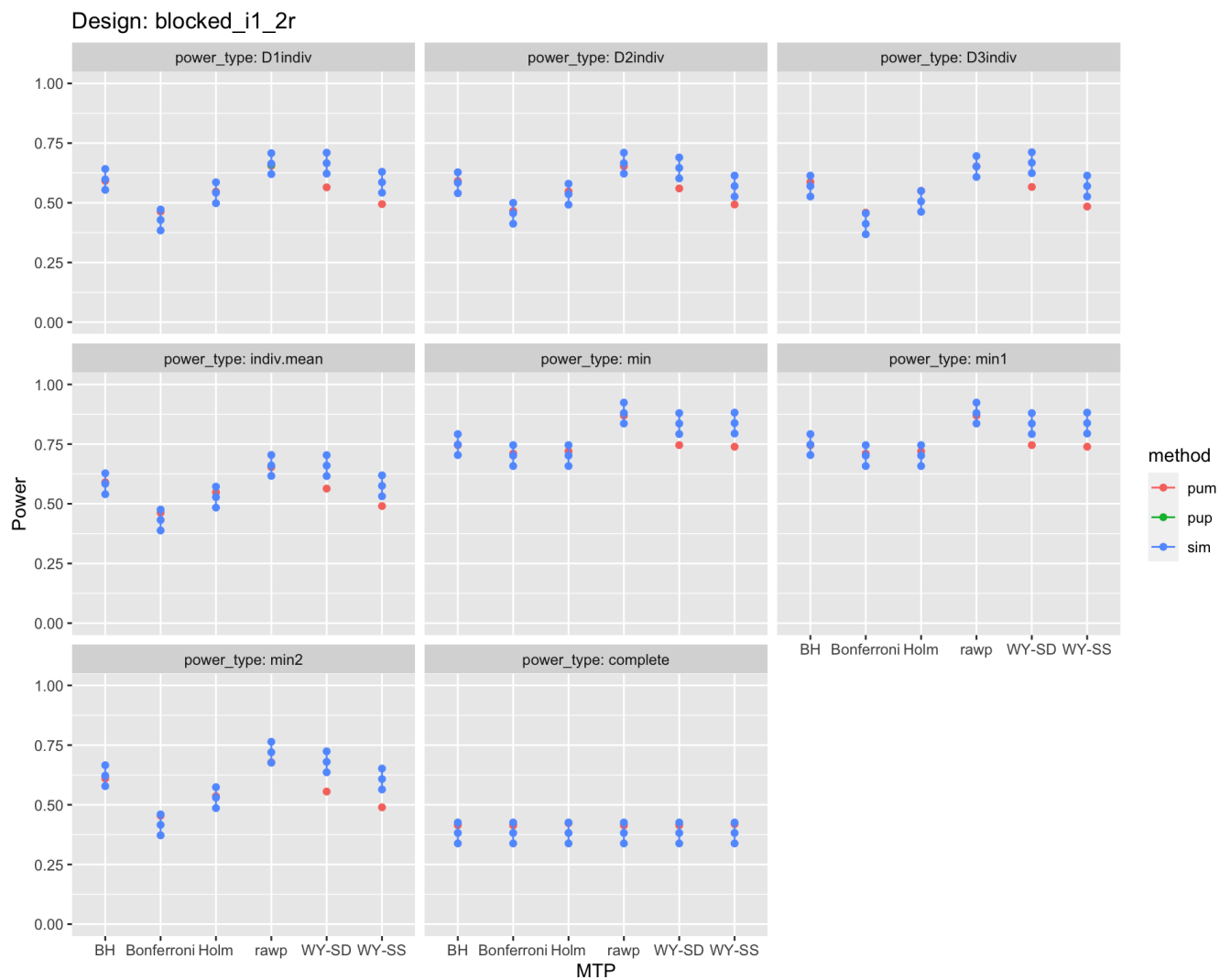
Random effects with small $B = 200$ and large $J = 60$



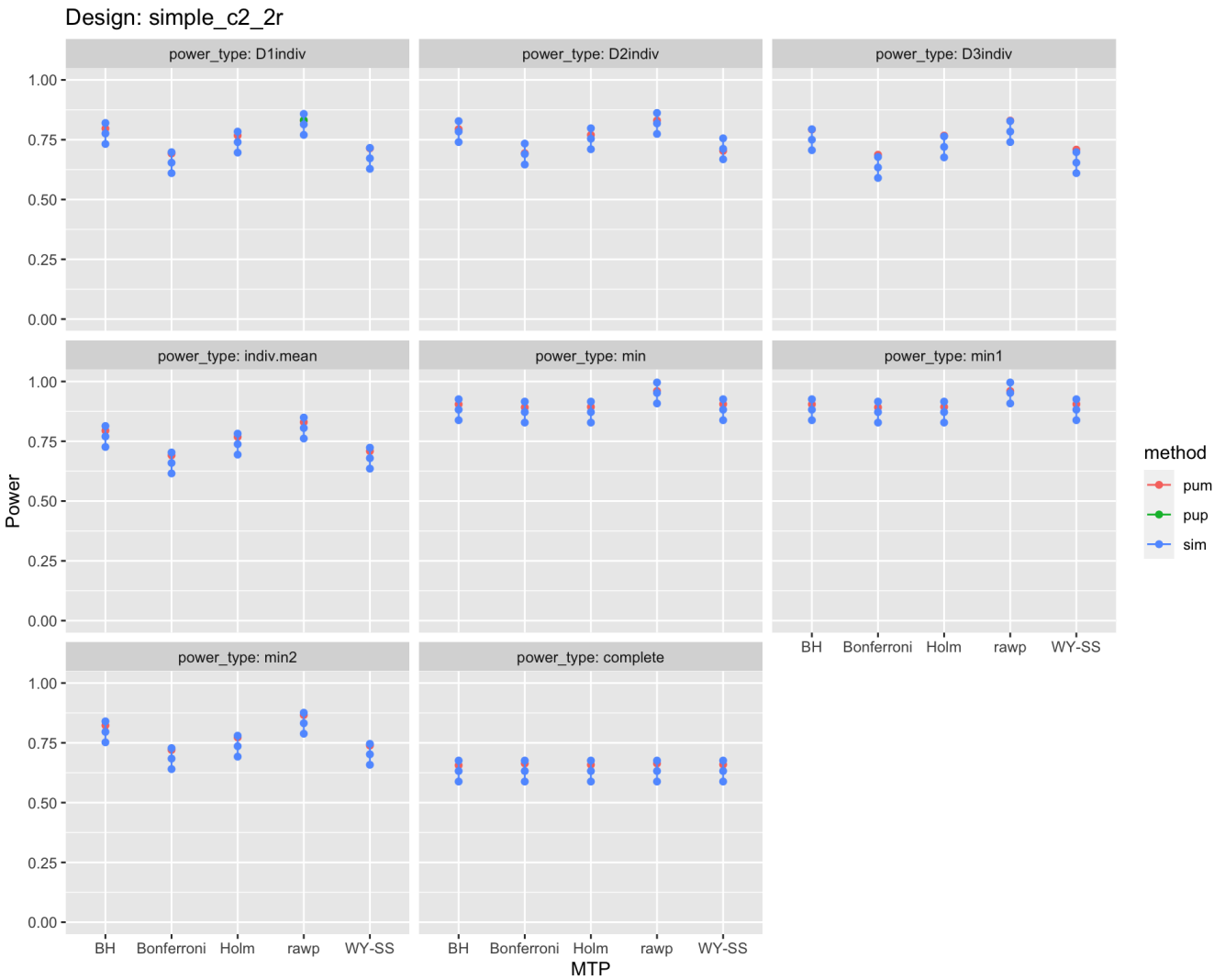
Random effects with large $B = 10000$ and small $J = 20$

Design: blocked_j1_2r

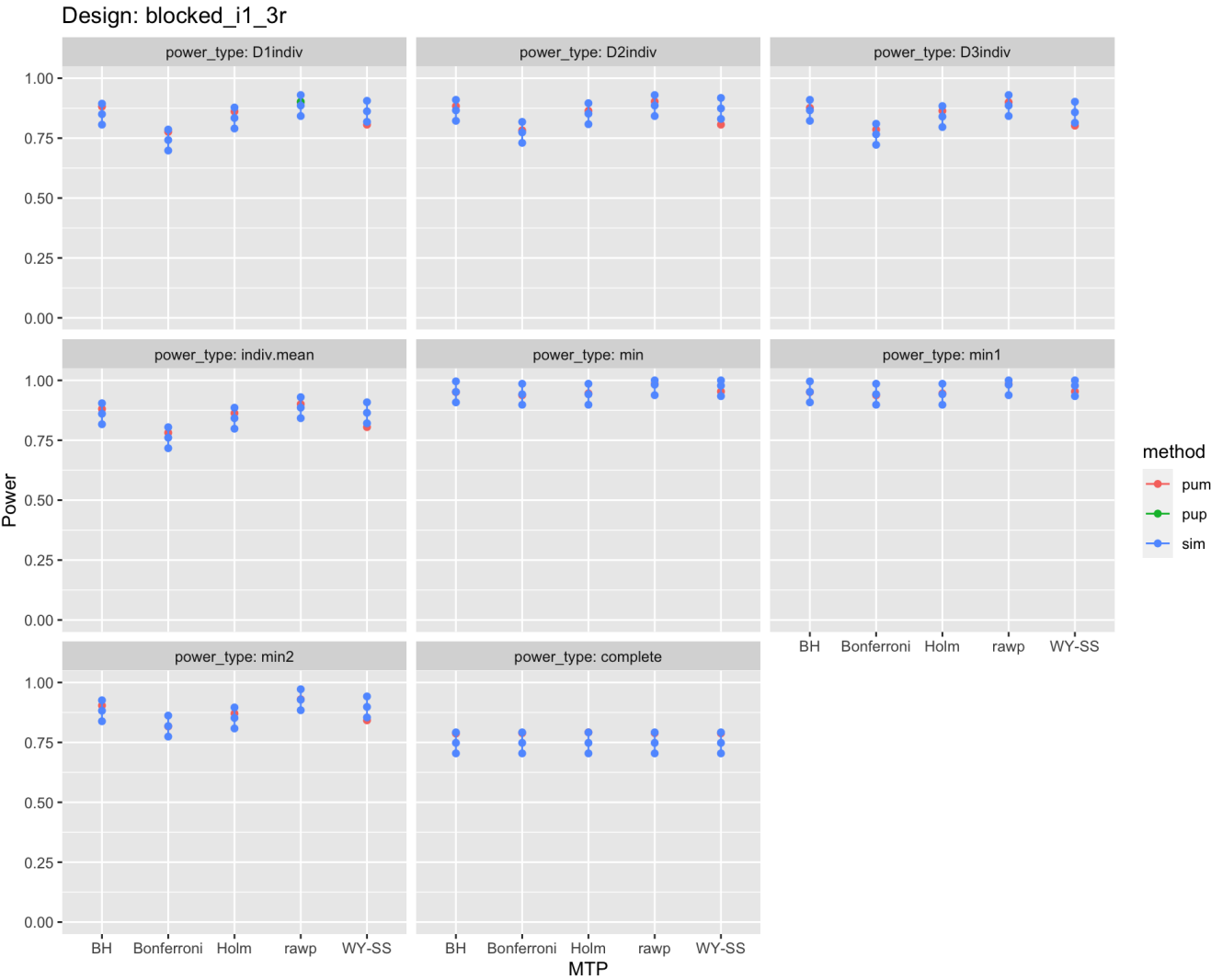
Random effects with large $B = 10000$ and medium $J = 30$



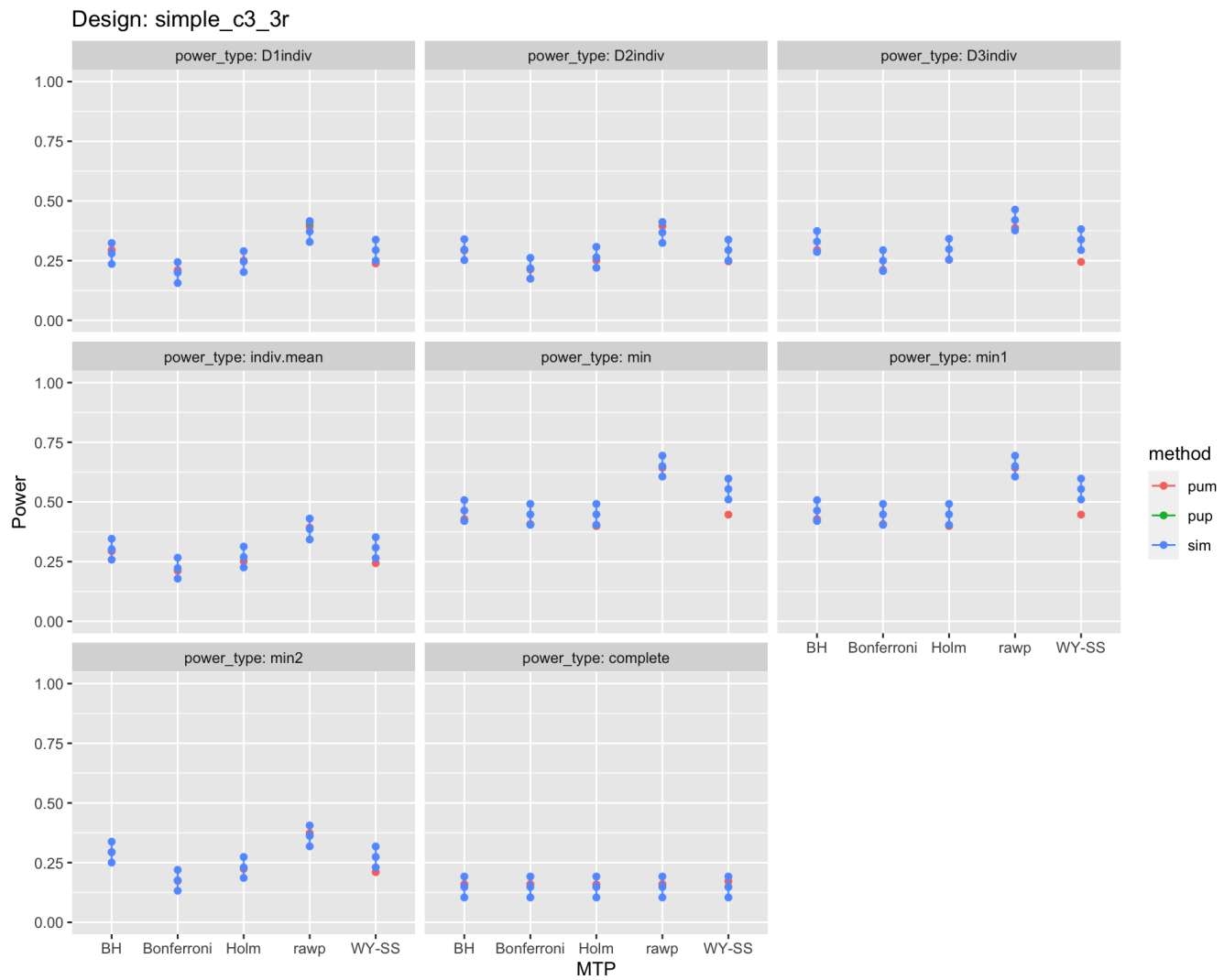
Cluster 2 level



Blocked 3 level



Cluster 3 level



Blocked cluster

Blocked cluster, fixed effects

