

Root Mean Square Error of Approximation

Test: Root Mean Square Error of Approximation

Design: Population discrepancy per degree of freedom for the two-factor CFA.

Variables: G1, G2, G3, famrel, freetime, goout

Null hypothesis: Population RMSEA is zero under exact approximate fit.

Formula: $RMSEA = \sqrt{\max[(\chi^2 - df) / (df(n-1)), 0]}$.

Source rows: 649

Calculated metrics:

rmsea: 0.0333448246929569

chi_square: 13.7639720984401

df: 8

n_cases: 649

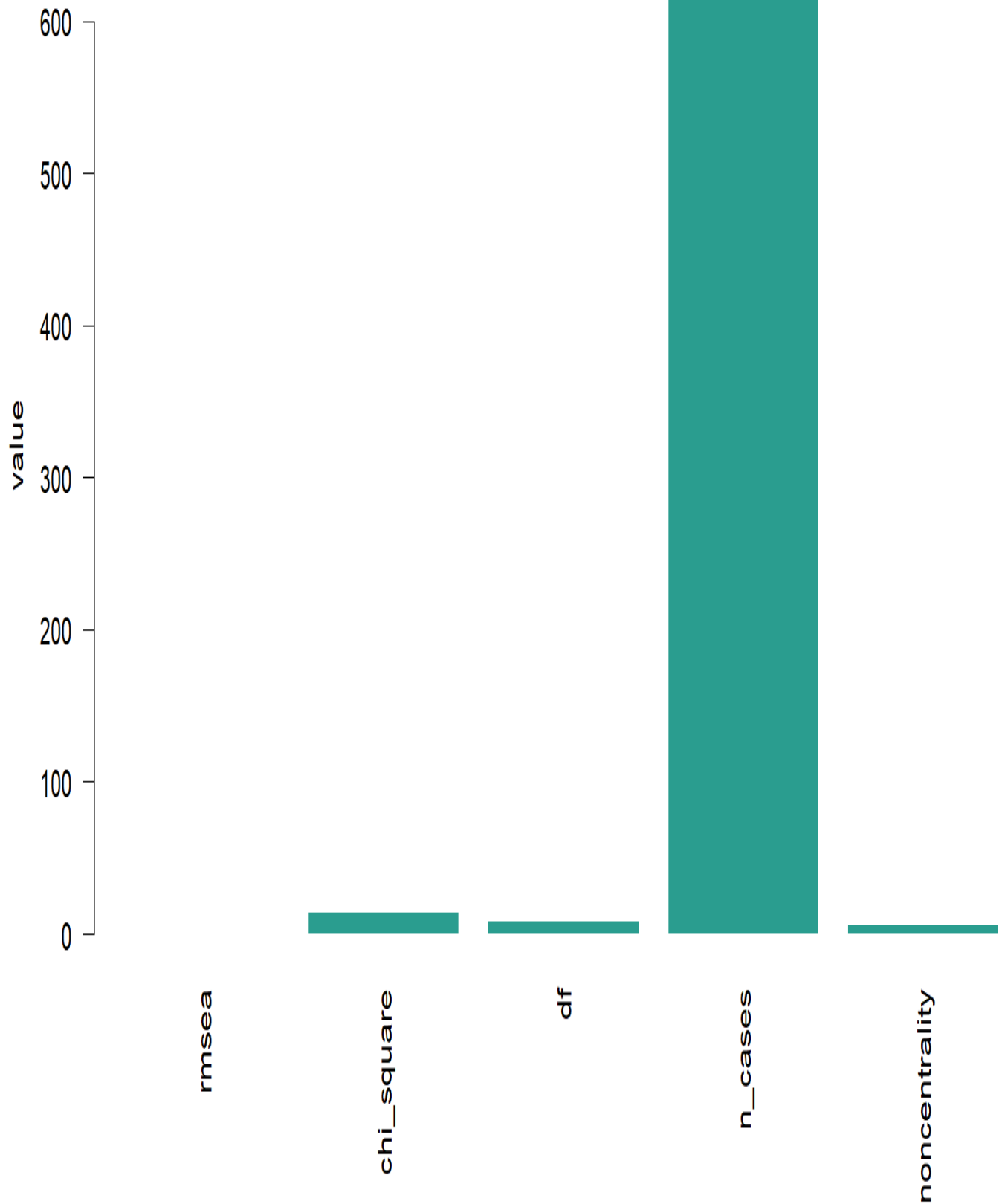
noncentrality: 5.76397209844009

Interpretation:

RMSEA scales noncentrality by df and sample size.

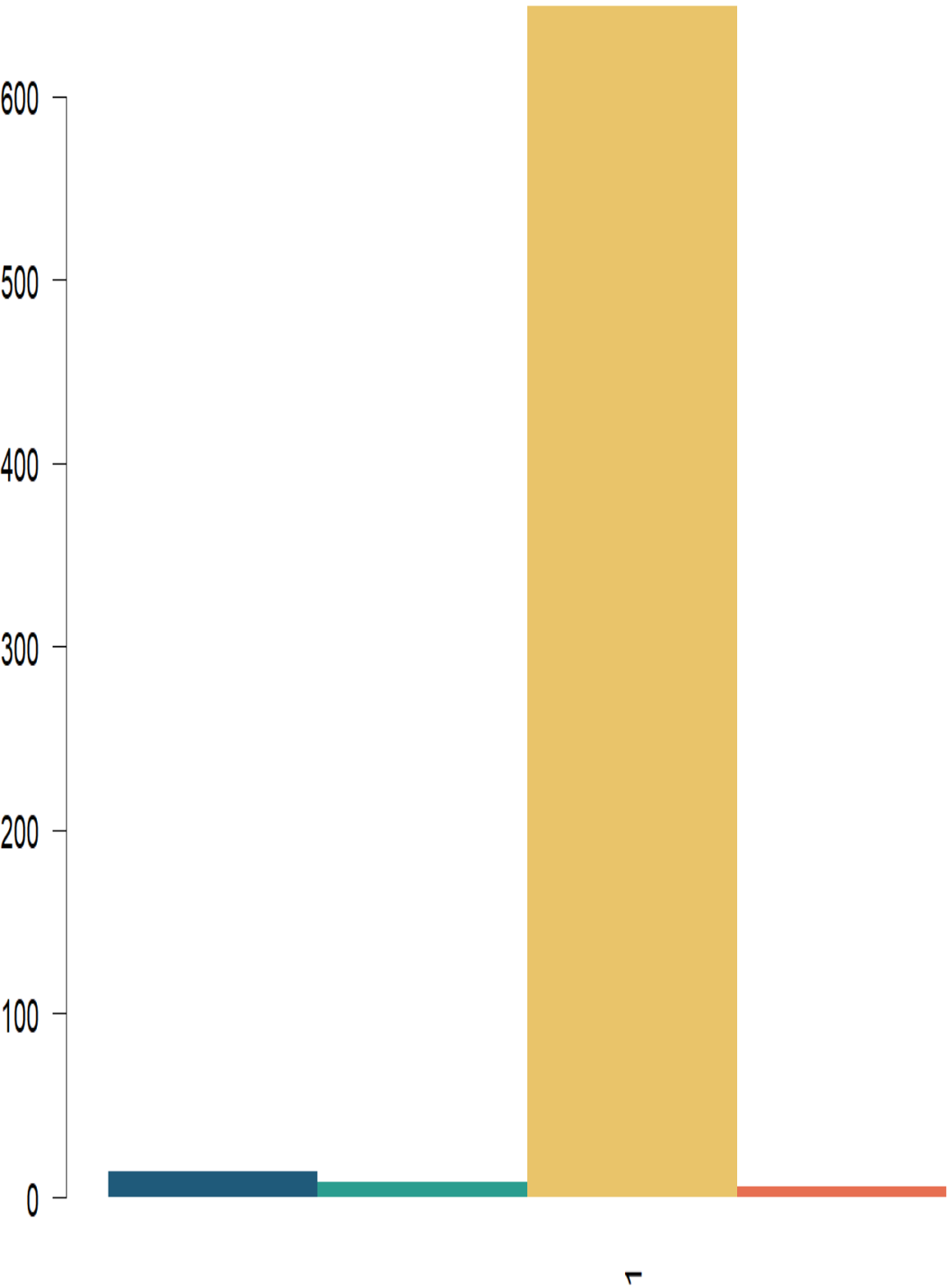
RMSEA 0.0333448246929569

Root Mean Square Error of Approximation - primary metrics

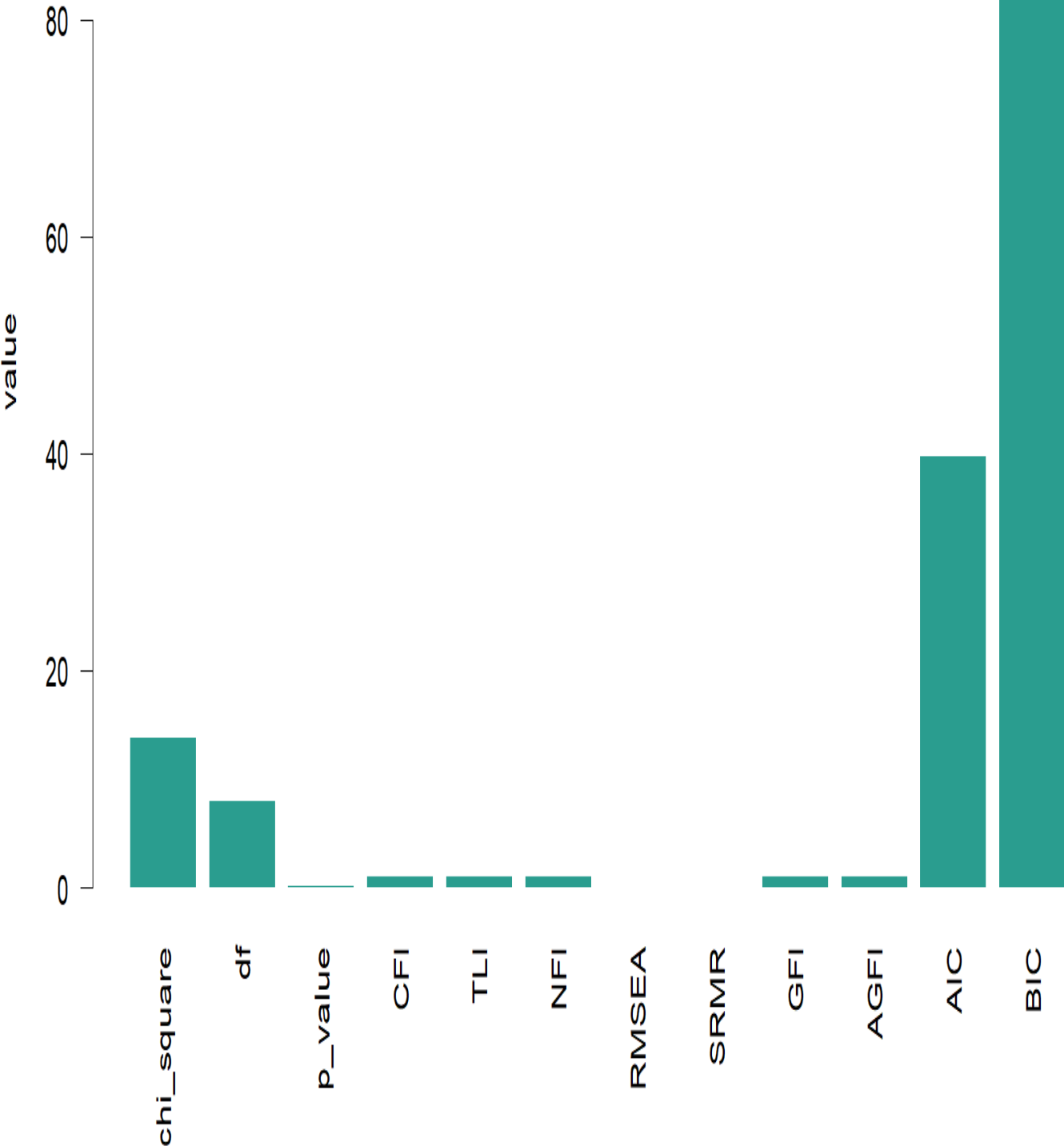


Root Mean Square Error of Approximation - rmsea formula components

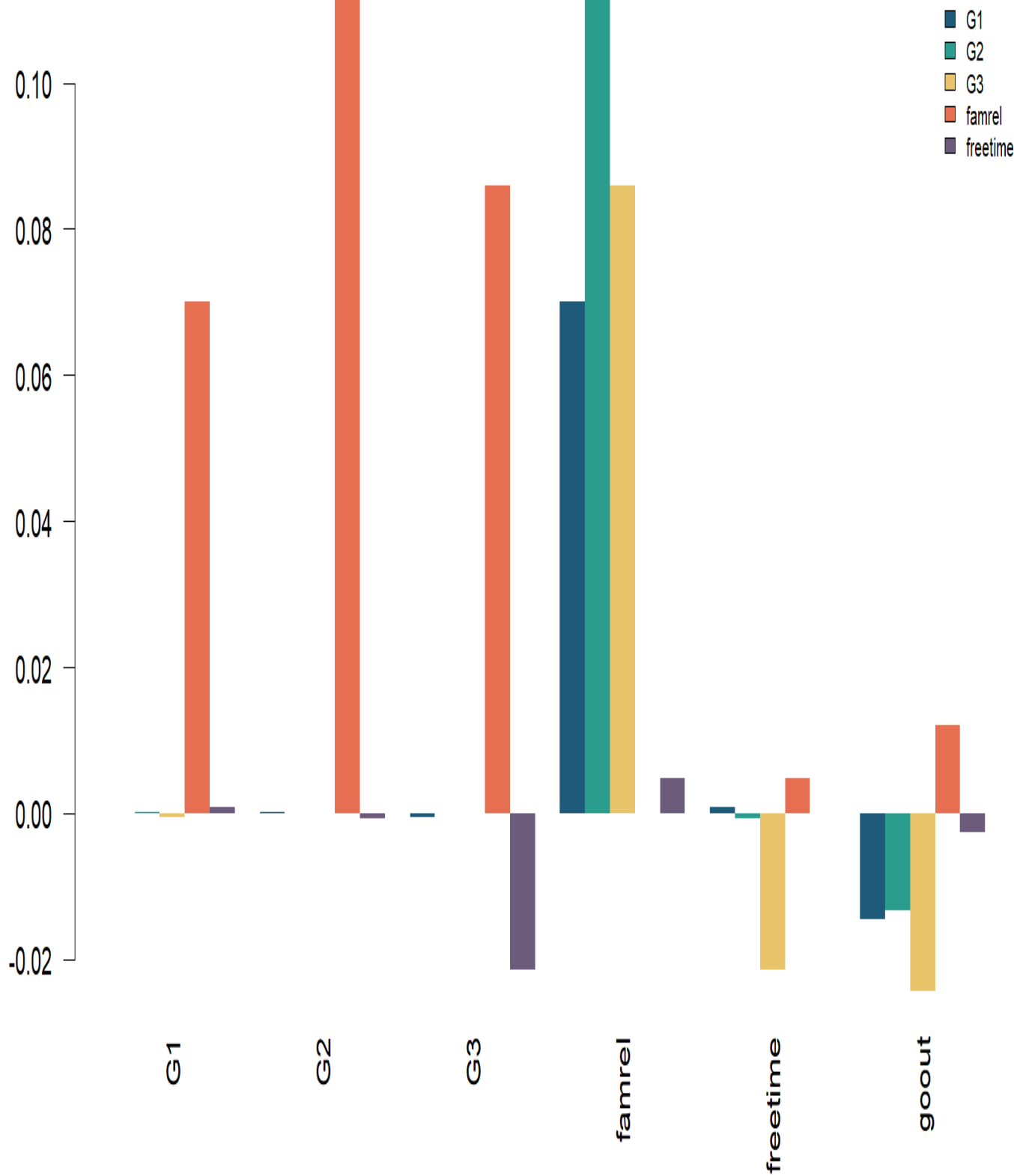
- chi_square
- df
- n
- noncentrality
- RMSEA



Root Mean Square Error of Approximation - rmsea fit context



Root Mean Square Error of Approximation - rmsea residual context



Root Mean Square Error of Approximation verified results

