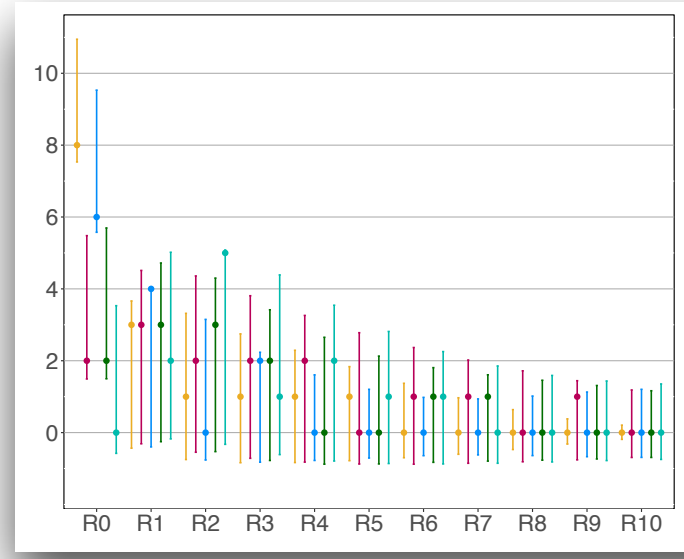
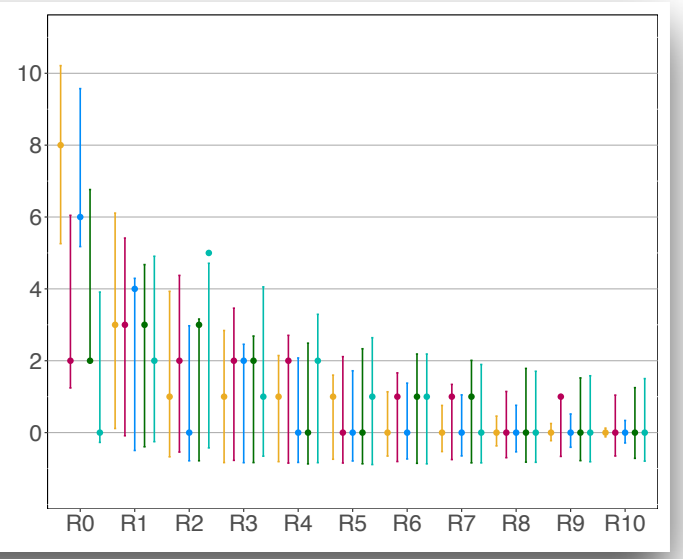
multiplexity analysis

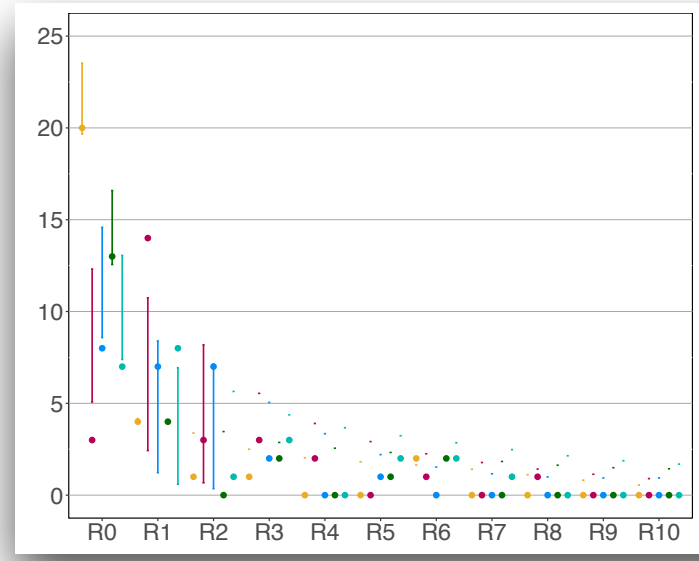
$\sim$ IEA($\mathbf{Q}$)



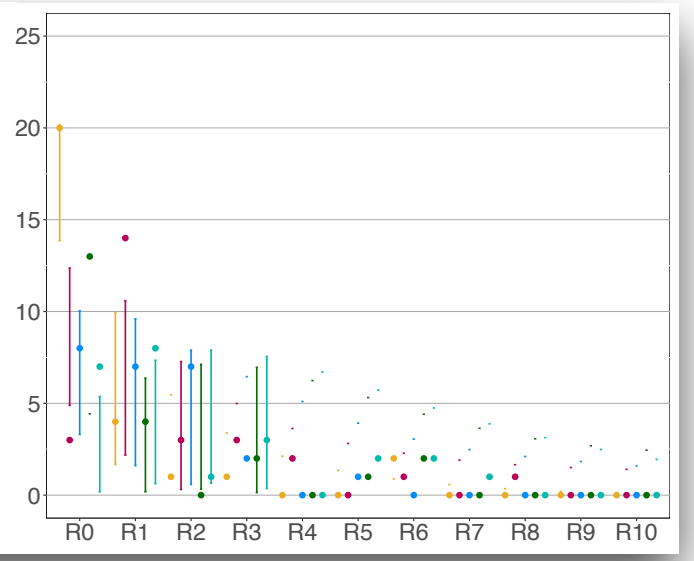
$\sim$ IEAS($\mathbf{Q}(\mathbf{d})$)



~ IEA(**Q**)


25
20
15
10
5
0
R0
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10

~ IEAS(**Q**(**d**))


25
20
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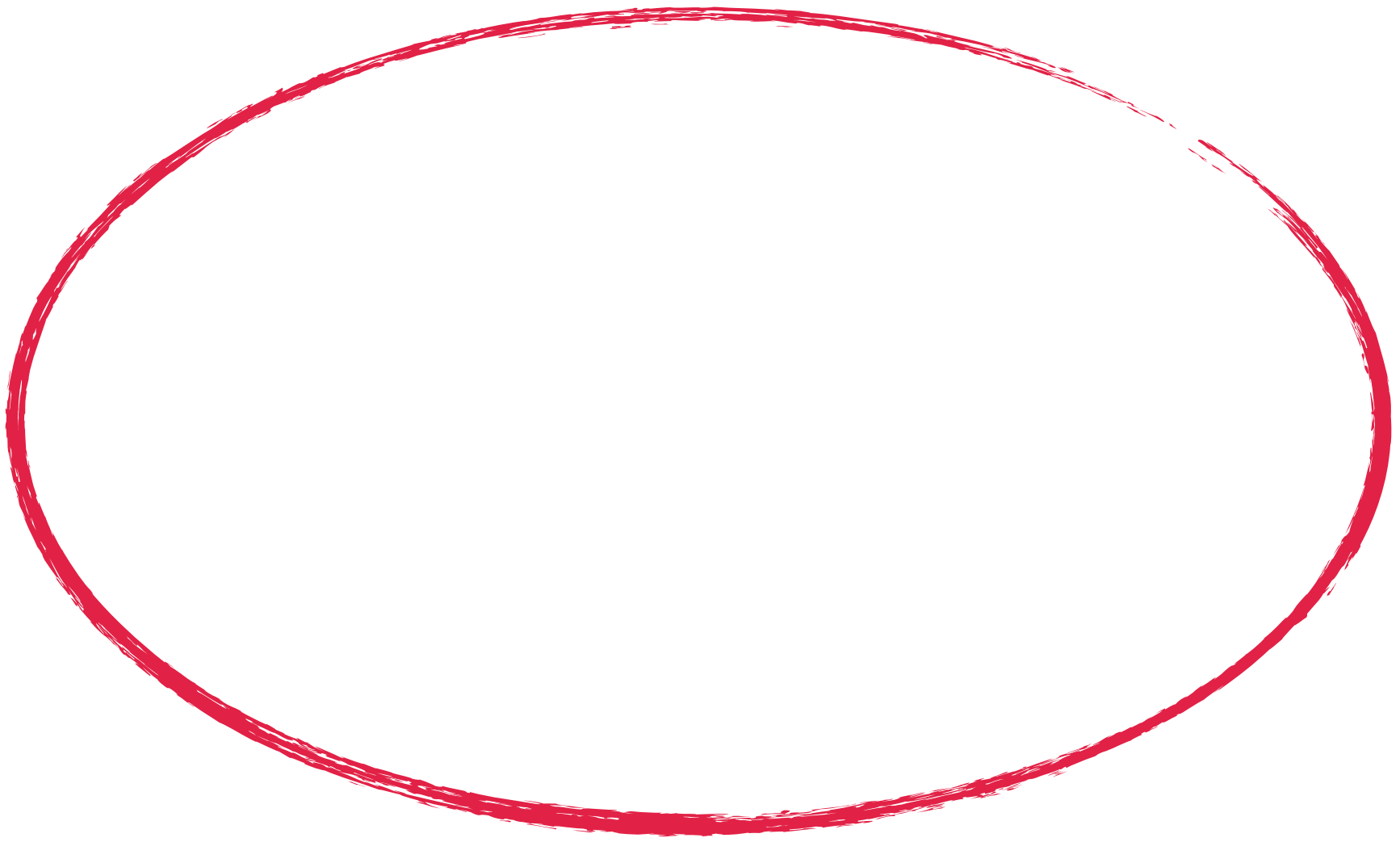
R0
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10

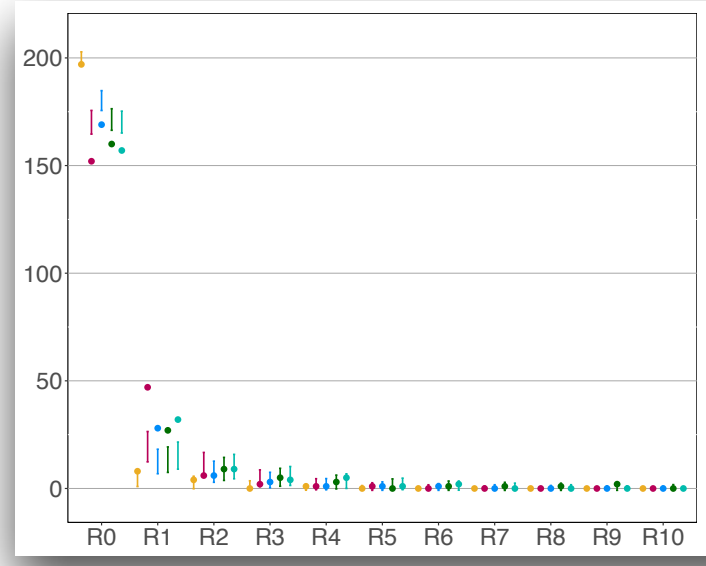
☑ both models provide good fits for multigraphs based on research groups

☑ intervals overlapping implies

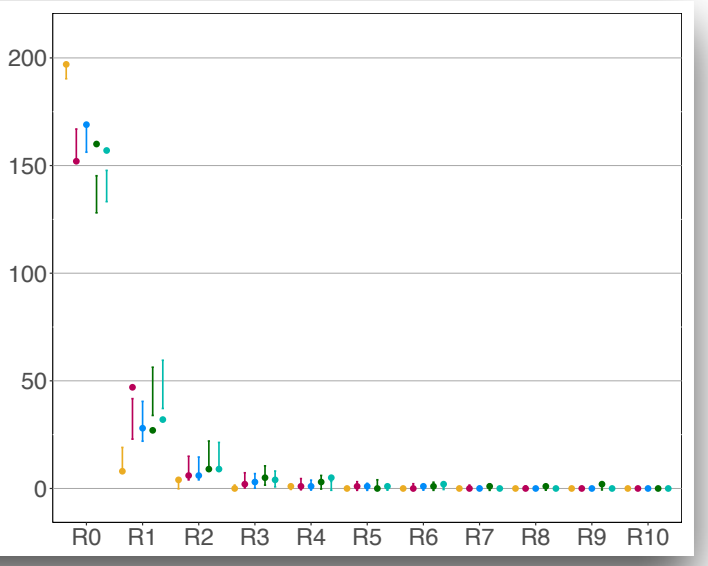
- ✓ indicating that tie occurrences are not significantly different
- ✓ tie occurrences are not independent implying
- ✓ some form of edge dependency is needed in the model specification



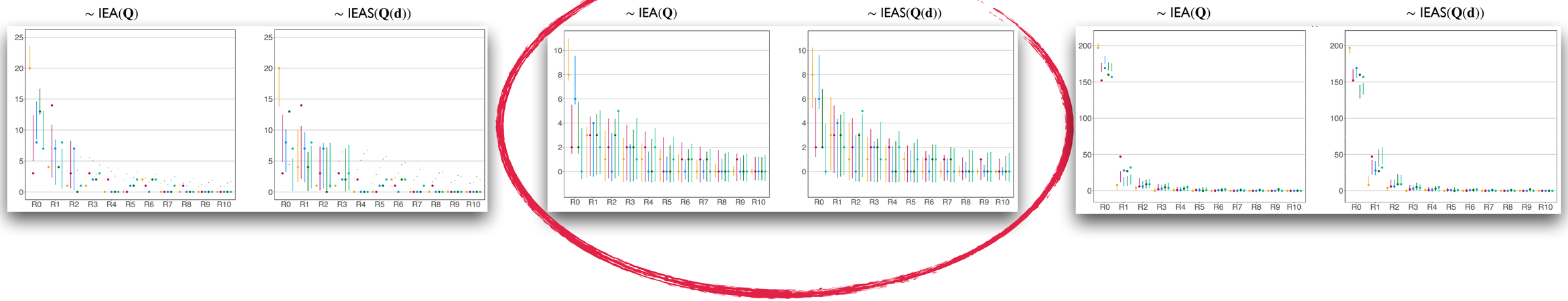
$\sim$ IEA($\mathbf{Q}$)



$\sim$ IEAS($\mathbf{Q}(\mathbf{d})$)



multiplexity analysis



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analysing ego networks

Krackhardt's High-tech Managers Networks (1987)

cognitive social structure data from 21 management personnel in a high-tech firm

relations:	actor attributes:
- undirected friendship - directed advice	- department - level - age - tenure

(also includes the relations each ego perceived among all other managers)