observed edge multiplicities

☑ complexity sequence $\mathbf{R} = (R_0, R_1, \ldots, R_k)$ where

$$R_k = \sum \sum_{i \leq j} I(M_{ij} = k) \quad \text{for } k = 0,1,\ldots,m$$

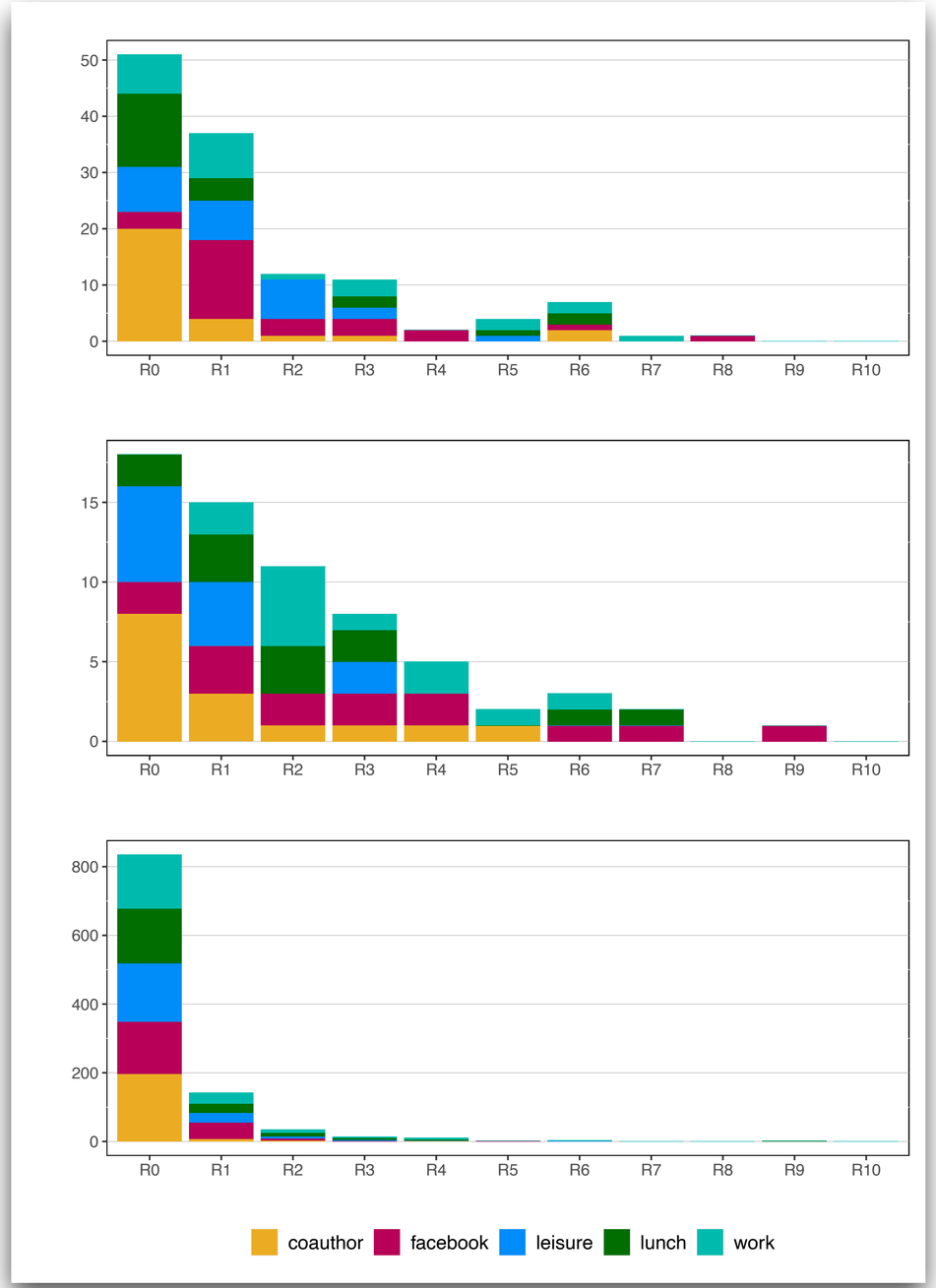
is the frequencies of edge multiplicities

✓ R_0 number of vertex pair sites with no edge occupancy

✓ R_1 number of vertex pair sites with single edge occupancy

✓ R_2 number of vertex pair sites with double edge occupancy

⋮



compare to expected values from random multigraph models

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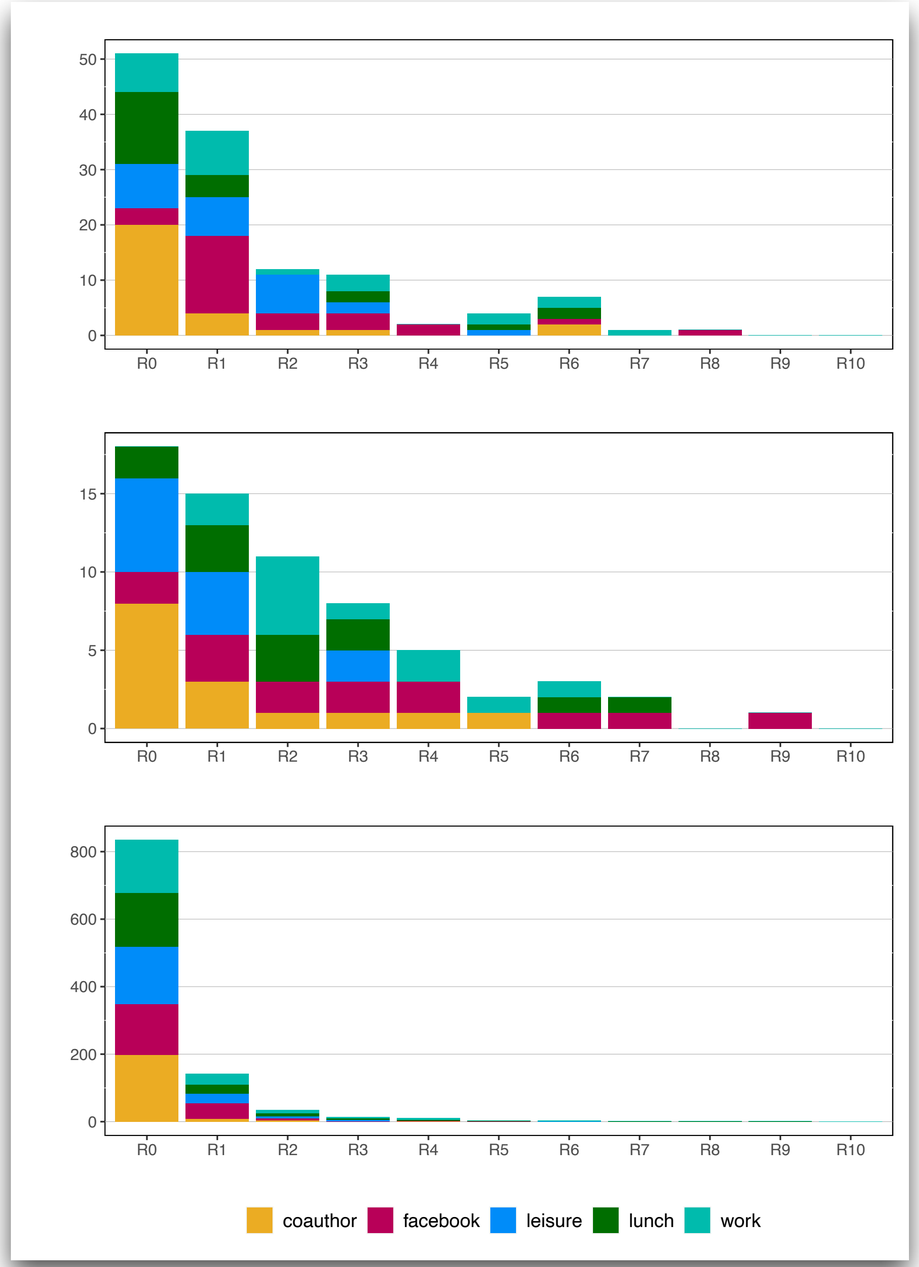

expected edge multiplicities