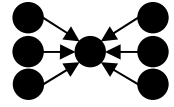
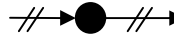

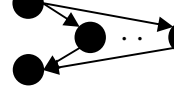

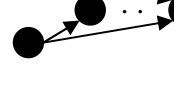



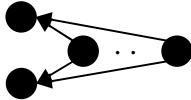
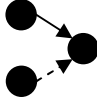
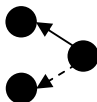
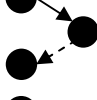
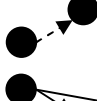

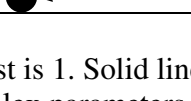


Extra Table. “Who starts when you are victimized?” and “Which classmates defend you when you are victimized?” Multivariate Exponential Random Graph Models for Bullying and Corrected Networks of Defending.

| Parameter | Explanation | Graphical representation | Mean parameter | | Standard deviation | |
|----------------------------|---|---|----------------|-----------|--------------------|----------|
| | | | Estimate | Std. Err. | Estimate | χ^2 |
| <i>Bullying</i> | | | | | | |
| In-ties spread (A-in-S) | Spread of in-ties distribution (if positive, the distribution is dispersed: some children receive more nominations for being a bully than others) |  | 1.339** | (0.285) | 0.63 | 1.75 |
| Isolates | Tendency for isolated children (zero indegree and zero outdegree) |  | 1.082** | (0.311) | 0.66 | 0.41 |
| Sinks | Tendency of children to have zero outdegree |  | 0.472 | (0.277) | 0.00 | 0.00 |
| Multiple two-paths (A2P-T) | Tendency to have (multiple) out-ties and in-ties (bully-victims) |  | 0.102** | (0.035) | 0.00 | 0.00 |
| Shared in-ties (A2P-D) | In-ties-based structural equivalence (being nominated by the same children) |  | 0.147* | (0.069) | 0.13 | 2.85 |
| Shared out-ties (A2P-U) | Out-ties-based structural equivalence (nominating the same children) |  | -1.506* | (0.641) | 2.99 | 140.51** |
| <i>Defending</i> | | | | | | |
| Reciprocity | Tendency to mutually defend |  | 1.329** | (0.124) | 0.00 | 0.00 |
| Transitive closure (AT-T) | Closure of two-paths (children defend the defenders of their defenders) |  | 0.839** | (0.039) | 0.04 | 0.07 |
| Multiple two-paths (A2P-T) | Being linked at distance two: Precondition for transitive closure |  | -0.295** | (0.031) | 0.11 | 35.79** |

| | | | | | | |
|--|---|---|--------------------|---------|------|--------|
| Shared in-ties (A2P-D) | In-ties-based structural equivalence (being nominated by the same children) |  | 0.173** | (0.023) | 0.08 | 9.95** |
| <i>Multivariate parameters</i> | | | | | | |
| Multiplex in-2-stars (In-2-star-AB) | Number of nominations received by children for bullying in correlation with the number of nominations they received for defending |  | -0.046* | (0.021) | 0.00 | 0.00 |
| Multiplex out-2-stars (Out-2-star-AB) | General tendency in nominating others (for bullying and defending) |  | 0.043* | (0.019) | 0.04 | 0.53 |
| Multiplex mixed-stars bullying-defending (Mixed-2-star-AB) | Number of times children are nominated for bullying and nominate others for defending |  | -0.039* | (0.017) | 0.03 | 1.75 |
| Multiplex mixed-stars defending-bullying (Mixed-2-star-BA) | Number of times children are nominated for defending and nominate others for bullying |  | -0.017 | (0.025) | 0.00 | 0.00 |
| Defending for shared out-ties of bullying (UKT-ABA) | Tendency of victims to defend other victims who are victimized by the same bullies |  | 0.434 [†] | (0.251) | 1.05 | 6.72** |
| Defending for shared in-ties of bullying (DKT-ABA) | Tendency of bullies to defend other bullies who harass the same victims |  | 0.484** | (0.105) | 0.27 | 1.87 |

Note. [†] $p < .10$; * $p < .05$. ** $p < .01$. The degree of freedom for the χ^2 test is 1. Solid lines indicate bully-victim relations, dotted lines indicate defending relations in the graphical representations of the multiplex parameters. Characters between brackets indicate the names of the configurations as they are named in *XPNet*. The mean parameter is an unstandardized aggregated estimate across classrooms. The standard deviation represents the degree to which estimates vary across classrooms.