BODSymmetricRate FALSE O	row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
64 constant xxxxxx rate (period nnnnnn) Rate FALSE 0 65 outdegree effect on rate xxxxxxx outRate FALSE 0 66 indegree effect on rate xxxxxxx inRate FALSE 0 67 reciprocity effect on rate xxxxxx recipRate FALSE 0 68 effect 1/outdegree on rate xxxxxx outRatelny FALSE 0 68 effect 1/outdegree on rate xxxxxx outRatelny FALSE 0 covarNonSymmetricRate 0 xxxxxxx 0 188 effect xxxxxx on rate Rate FALSE xxxxxxx 0 570 symmetricRate 8 FALSE 0 0 74 constant xxxxxx rate (period nnnum) Rate FALSE 0 0 75 degree effect on rate xxxxxxx outRate FALSE 0 <td>nonS</td> <td>Symmetric Rate</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td>	nonS	Symmetric Rate						· · · · · · · · · · · · · · · · · · ·
65 outdegree effect on rate xxxxxx	63	basic rate parameter xxxxxx	Rate	FALSE			0	
66 indegree effect on rate xxxxxx	64	constant xxxxxx rate (period nnnnnn)	Rate	FALSE			0	
67 reciprocity effect on rate xxxxxx recipRate outRateInv FALSE 0 68 effect 1/outdegree on rate xxxxxx outRateInv FALSE 0 188 effect xxxxxx on rate RateX FALSE xxxxxx 0 8ymmetricRate	65	outdegree effect on rate xxxxxx	outRate	FALSE			0	
68 effect 1/outdegree on rate xxxxxx outRateInv FALSE 0 covarNonSymmetricRate	66	indegree effect on rate xxxxxx	inRate	FALSE			0	
covarNonSymmetricRate 188 effect xxxxxx on rate	67	reciprocity effect on rate xxxxxx	recipRate	FALSE			0	
188	68	effect 1/outdegree on rate xxxxxx	outRateInv	FALSE			0	
SymmetricRate FALSE 0	cova	rNonSymmetricRate						
73 basic rate parameter xxxxxx Rate FALSE 0 74 constant xxxxxx rate (period nnnnn) Rate FALSE 0 75 degree effect on rate xxxxxx outRate FALSE 0 76 effect 1/degree on rate xxxxxx outRateInv FALSE 0 covarSymmetricRate 87 effect xxxxxxx 0 187 effect xxxxxxx on rate RateX FALSE xxxxxx 0 bipartiteRate 0	188	effect xxxxxx on rate	RateX	FALSE	XXXXXX		0	
74 constant xxxxxx rate (period nnnnnn) Rate FALSE 0 75 degree effect on rate xxxxxx outRate FALSE 0 76 effect 1/degree on rate xxxxxx outRateInv FALSE 0 covarSymmetricRate 8 FALSE xxxxxx 0 bipartiteRate 8 FALSE xxxxxx 0 69 basic rate parameter xxxxxx Rate FALSE 0 70 constant xxxxxxx rate (period nnnnnn) Rate FALSE 0 71 outdegree effect on rate xxxxxx outRate FALSE 0 72 effect 1/outdegree on rate xxxxxx outRateInv FALSE 0 covarBipartiteRate 8 FALSE 0 189 effect xxxxxxx on rate Rate FALSE 0 behaviorRate 8 rate xxxxxxx (period 1 Rate FALSE 0 48 rate xxxxxx (period nnnnn) Rate FALSE 0 behaviorOneModeRate 50 outdegree effect on rate xxxxxx outRate FALSE yyyyyy 0 51 indegree effect on rate xxxxxx in	symi	netricRate						
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76 effect 1/degree on rate xxxxxx outRateInv FALSE	74	constant xxxxxx rate (period nnnnnn)	Rate	FALSE			0	
187 effect xxxxxx on rate RateX FALSE xxxxxx 0	75	degree effect on rate xxxxxx	outRate	FALSE			0	
Bate Rate Rate Rate False Rate	76	effect 1/degree on rate xxxxxx	outRateInv	FALSE			0	
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69 basic rate parameter xxxxxx	187	effect xxxxxx on rate	RateX	FALSE	XXXXXX		0	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	bipa	rtiteRate						
71 outdegree effect on rate xxxxxx outRate FALSE 0 72 effect 1/outdegree on rate xxxxxx outRateInv FALSE 0 covarBipartiteRate 189 effect xxxxxx on rate RateX FALSE xxxxxx 0 behaviorRate 48 rate xxxxxx period 1 Rate FALSE 0 49 rate xxxxxx (period nnnnnn) Rate FALSE 0 behaviorOneModeRate 50 outdegree effect on rate xxxxxx inRate FALSE yyyyyy 0 51 indegree effect on rate xxxxxx inRate FALSE yyyyyy 0 52 reciprocated effect on rate xxxxxx recipRate FALSE yyyyyy 0 53 average exposure effect on rate xxxxxx average exposure effect on rate xxxxxx susceptAvIn FALSE yyyyyy 0 54 susceptibility to av. exp. by indegree effect on rate xxxxxx totExposure FALSE yyyyyy 0 55 total exposure effect on rate xxxxxx totExposure FALSE yyyyyy 0	69	basic rate parameter xxxxxx	Rate	FALSE			0	
72 effect 1/outdegree on rate xxxxxx outRateInv FALSE 0 covarBipartiteRate 189 effect xxxxxx on rate RateX FALSE xxxxxx 0 behaviorRate 48 rate xxxxxx period 1 Rate FALSE 0 49 rate xxxxxx (period nnnnnn) Rate FALSE 0 behaviorOneModeRate 50 outdegree effect on rate xxxxxx outRate FALSE yyyyyy 0 51 indegree effect on rate xxxxxx inRate FALSE yyyyyy 0 52 reciprocated effect on rate xxxxxx recipRate FALSE yyyyyy 0 53 average exposure effect on rate xxxxxx avExposure FALSE yyyyyy 0 54 susceptibility to av. exp. by indegree effect on rate xxxxxx susceptAvIn FALSE yyyyyy 0 55 total exposure effect on rate xxxxxx totExposure FALSE yyyyyy 0	70	constant xxxxxx rate (period nnnnnn)	Rate	FALSE			0	
covarBipartiteRate 189 effect xxxxxx on rate RateX FALSE xxxxxx 0 behaviorRate 48 rate xxxxxx period 1 Rate FALSE 0 49 rate xxxxxx (period nnnnnn) Rate FALSE 0 behaviorOneModeRate 50 outdegree effect on rate xxxxxx outRate FALSE yyyyyy 0 51 indegree effect on rate xxxxxx inRate FALSE yyyyyy 0 52 reciprocated effect on rate xxxxxx recipRate FALSE yyyyyy 0 53 average exposure effect on rate xxxxxx avExposure FALSE yyyyyy 0 54 susceptibility to av. exp. by indegree effect on rate xxxxxx susceptAvIn FALSE yyyyyy 0 55 total exposure effect on rate xxxxxx totExposure FALSE yyyyyy 0	71	outdegree effect on rate xxxxxx	outRate	FALSE			0	
189 effect xxxxxx on rateRateXFALSE xxxxxx0behaviorRate48 rate xxxxxx period 1RateFALSE049 rate xxxxxx (period nnnnnn)RateFALSE0behaviorOneModeRate50 outdegree effect on rate xxxxxxoutRateFALSE yyyyyy051 indegree effect on rate xxxxxxinRateFALSE yyyyyy052 reciprocated effect on rate xxxxxxrecipRateFALSE yyyyyy053 average exposure effect on rate xxxxxxavExposureFALSE yyyyyy054 susceptibility to av. exp. by indegree effect on rate xxxxxxsusceptAvInFALSE yyyyyy055 total exposure effect on rate xxxxxxtotExposureFALSE yyyyyy0	72	effect 1/outdegree on rate xxxxxx	outRateInv	FALSE			0	
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48 rate xxxxxx period 1 49 rate xxxxxx (period nnnnnn) Rate FALSE 0 behaviorOneModeRate 50 outdegree effect on rate xxxxxx	189	effect xxxxxx on rate	RateX	FALSE	XXXXXX		0	
49rate xxxxxx (period nnnnnn)RateFALSE0behaviorOneModeRate50outdegree effect on rate xxxxxxoutRateFALSE yyyyyy051indegree effect on rate xxxxxxinRateFALSE yyyyyy052reciprocated effect on rate xxxxxxrecipRateFALSE yyyyyy053average exposure effect on rate xxxxxxavExposureFALSE yyyyyy054susceptibility to av. exp. by indegree effect on rate xxxxxxsusceptAvInFALSE yyyyyy055total exposure effect on rate xxxxxxtotExposureFALSE yyyyyy0	beha	viorRate						
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50 outdegree effect on rate xxxxxx outRate FALSE yyyyyy 0 51 indegree effect on rate xxxxxx inRate FALSE yyyyyy 0 52 reciprocated effect on rate xxxxxx recipRate FALSE yyyyyy 0 53 average exposure effect on rate xxxxxx avExposure FALSE yyyyyy 0 54 susceptibility to av. exp. by indegree effect on rate xxxxxx susceptAvIn FALSE yyyyyy 0 55 total exposure effect on rate xxxxxx totExposure FALSE yyyyyy 0	49	rate xxxxxx (period nnnnnn)	Rate	FALSE			0	
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recipRate FALSE yyyyyy 0 average exposure effect on rate xxxxxx avExposure FALSE yyyyyy 0 susceptibility to av. exp. by indegree effect on rate xxxxxx susceptAvIn FALSE yyyyyy 0 total exposure effect on rate xxxxxx total exposure effect on rate xxxxxx total exposure effect on rate xxxxxx for the following false for the false yyyyyy for the false yyyyyy for total exposure effect on rate xxxxxx for the false yyyyyy for the false yyyyyyy for the false yyyyyyy for the false yyyyyyy for the false yyyyyy for the false yyyyyyy for the false yyyyyy for the false yyyyyyy for the false yyyyyy for the false yyyyyyy for the false yyyyyyy for the false yyyyyyy for the false yyyyyy for the false yyyyyyy for the false yyyyyyy for the false yyyyyyy for the false yyyyyy for the false yyyyyyy for the false yyyyyyy for the false yyyyyy for the false yyyyyyy for the false yyyyyyy for the false yyyyyy for yyyyyy for the false yyyyyy for the false yyyyyyyy for the false yyyyyy for the false yyyyyyy for yyyyyy for yyyyyyyyyy for yyyy	51	indegree effect on rate xxxxxx	inRate	FALSE			0	
avExposure avExposure FALSE yyyyyy 0 54 susceptibility to av. exp. by indegree effect on rate xxxxxx susceptAvIn FALSE yyyyyy 0 55 total exposure effect on rate xxxxxx totExposure FALSE yyyyyy 0	52	reciprocated effect on rate xxxxxx	recipRate	FALSE	уууууу		0	
55 total exposure effect on rate xxxxxx totExposure FALSE yyyyyy 0	53	average exposure effect on rate xxxxxx	avExposure	FALSE			0	
55 total exposure effect on rate xxxxxx totExposure FALSE yyyyyy 0	54		suscept Av In	FALSE	уууууу		0	
	55	total exposure effect on rate xxxxxx	totExposure	FALSE			0	
	56	infection by indegree effect on rate xxxxxx	infectIn	FALSE			0	

Entertion by outdegree effect on rate xxxxxx infectOut FALSE yyyyyy 0	row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
behaviorSymmetricRate						111001 -	-	meeracearing
58 degree effect on rate xxxxxx outRate FALSE yyyyy 0 covarBehaviorOneModeRate 59 susceptbility to av. exp. by wazazz effect on rate xxxxxx susceptAvCovar infectCovar infectCov		<u> </u>						
covarBehaviorOneModeRate 59 susceptibility to av. exp. by 7272722 effect on rate xxxxx susceptibility to av. exp. by 7272722 effect on rate xxxxxx Susceptibility to av. exp. by 7272722 effect on rate xxxxxx Susceptibility to av. exp. by 7272722 on infection by 727272 on infec		v	outRate	FALSE	VVVVVV		0	
behaviorBipartiteRate		~						
behaviorBipartiteRate	59	susceptibility to av. exp. by zzzzzz effect on rate xxxxxx	susceptAvCovar	FALSE	VVVVVV	ZZZZZZ	0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	60	infection by zzzzzz effect on rate xxxxxx	infectCovar	FALSE		ZZZZZZ	0	
62 reciprocated effect on rate xxxxxx recipRate FALSE yyyyyy 0 covarBehaviorRate 121 effect yyyyyy on rate xxxxxx RateX FALSE yyyyyy 0 nonSymmetricObjective 135 outdegree (density) density TRUE 0 dyadic 136 reciprocity recip TRUE 0 dyadic 137 transitive triplets transMcdTrip TRUE 0 dyadic 139 transitive reciprocated triplets transRecTrip TRUE 0 density 140 3-cycles cycle3 TRUE 0 density 0 140 3-cycles cycle3 TRUE 0 density 0	beha	viorBipartiteRate						
62 reciprocated effect on rate xxxxxx recipRate FALSE yyyyyy 0 121 effect yyyyyy on rate xxxxxx RateX FALSE yyyyyy 0 nonSymmetricObjective	61	outdegree effect on rate xxxxxx	outRate	FALSE	уууууу		0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	62	reciprocated effect on rate xxxxxx	recipRate	FALSE			0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	cova	rBehaviorRate						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	121	effect yyyyyy on rate xxxxxx	RateX	FALSE	уууууу		0	
136reciprocityrecipTRUE0dyadic137transitive tripletstransTripTRUE0138transitive mediated tripletstransMedTripTRUE0139transitive reciprocated tripletstransRecTripTRUE01403-cyclescycle3TRUE0141transitive tiestransTiesTRUE0142betweennessbetweenFALSE0143balanceTRUE0144number of actors at distance 2nbrDist2FALSE0145number pairs at doubly achieved distance 2nbrDist2twiceFALSE0146dense triadsdense TriadsFALSE5147GWESP I -> K -> J (#)gwespFFFALSE69148GWESP I -> K -> J (#)gwespBBFALSE69149GWESP I -> K -> J (#)gwespFBFALSE69150GWESP I -> K -> J (#)gwespBFFALSE69151GWESP I -> K -> J (#)gwespBFFALSE69152indegree - popularityinPopTRUE0153indegree - popularity (sqrt)inPopSqrtTRUE0154outdegree - popularity (sqrt)outPopTRUE0155indegree - activityoutPopSqrtFALSE0dyadic156indegree - activityoutPopSqrtFALSE0dyadic	nonS	Symmetric Objective						
137transitive tripletstransTripTRUE0138transitive mediated tripletstransMedTripTRUE0139transitive reciprocated tripletstransRecTripTRUE01403-cyclescycle3TRUE0141transitive tiestransTiesTRUE0141transitive tiestransTiesTRUE0142betweennessbetweenFALSE0143balanceTRUE0144number of actors at distance 2nbrDist2FALSE0145number pairs at doubly achieved distance 2nbrDist2twiceFALSE0146dense triadsdense TriadsFALSE5147GWESP I -> K -> J (#)gwespFFFALSE69148GWESP I -> K <- J (#)	135	outdegree (density)	density	TRUE			0	dyadic
138transitive mediated tripletstransMedTripTRUE0139transitive reciprocated tripletstransRecTripTRUE01403-cyclescycle3TRUE0141transitive tiestransTiesTRUE0142betweennessbetweenFALSE0143balanceTRUE0144number of actors at distance 2nbrDist2FALSE0145number pairs at doubly achieved distance 2nbrDist2twiceFALSE0146dense triadsdense TriadsFALSE5147GWESP I -> K -> J ($\#$)gwespFFFALSE69148GWESP I -> K <- J ($\#$)gwespBBFALSE69149GWESP I -> K <- J ($\#$)gwespFBFALSE69150GWESP I -> K <- J ($\#$)gwespBFFALSE69151GWESP I -> K <- J ($\#$)gwespBFFALSE69152indegree - popularityinPopTRUE0153indegree - popularity (sqrt)inPopSqrtTRUE0154outdegree - popularityoutPopTRUE0155outdegree - popularity (sqrt)outPopSqrtFALSE0dyadic156indegree - activityinActFALSE0dyadic	136	reciprocity	recip	TRUE			0	dyadic
139transitive reciprocated tripletstransRecTripTRUE01403-cyclescycle3TRUE0141transitive tiestransTiesTRUE0142betweennessbetweenFALSE0143balanceTRUE0144number of actors at distance 2nbrDist2FALSE0145number pairs at doubly achieved distance 2nbrDist2twiceFALSE0146dense triadsdenseTriadsFALSE5147GWESP I -> K -> J (#)gwespFFFALSE69148GWESP I -< K <- J (#)	137	transitive triplets	transTrip	TRUE			0	
1403-cyclescycle3TRUE0141transitive tiestransTiesTRUE0142betweennessbetweenFALSE0143balanceTRUE0144number of actors at distance 2nbrDist2FALSE0145number pairs at doubly achieved distance 2nbrDist2twiceFALSE0146dense triadsdense TriadsFALSE0147GWESP I -> K -> J (#)gwespFFFALSE69148GWESP I <- K <- J (#)	138	transitive mediated triplets	${\it transMedTrip}$	TRUE			0	
141transitive tiestransTiesTRUE0142betweennessbetweenFALSE0143balanceTRUE0144number of actors at distance 2nbrDist2FALSE0145number pairs at doubly achieved distance 2nbrDist2twiceFALSE0146dense triadsdense TriadsFALSE5147GWESP I -> K -> J (#)gwespFFFALSE69148GWESP I <- K <- J (#)	139	transitive reciprocated triplets	transRecTrip	TRUE			0	
142betweennessbetweenFALSE0143balanceTRUE0144number of actors at distance 2nbrDist2FALSE0145number pairs at doubly achieved distance 2nbrDist2twiceFALSE0146dense triadsdense TriadsFALSE5147GWESP I -> K -> J (#)gwespFFFALSE69148GWESP I <- K <- J (#)	140	3-cycles	cycle3	TRUE			0	
143balanceTRUE0144number of actors at distance 2nbrDist2FALSE0145number pairs at doubly achieved distance 2nbrDist2twiceFALSE0146dense triadsdenseTriadsFALSE5147GWESP I -> K -> J (#)gwespFFFALSE69148GWESP I K J (#)gwespBBFALSE69149GWESP I -> K J (#)gwespFBFALSE69150GWESP I -> K <- J (#)	141	transitive ties	transTies	TRUE			0	
144number of actors at distance 2nbrDist2FALSE0145number pairs at doubly achieved distance 2nbrDist2twiceFALSE0146dense triadsdense TriadsFALSE5147GWESP I -> K -> J (#)gwespFFFALSE69148GWESP I <- K <- J (#)	142	betweenness	between	FALSE			0	
145number pairs at doubly achieved distance 2nbr Dist 2twiceFALSE0146dense triadsdense TriadsFALSE5147GWESP I -> K -> J (#)gwespFFFALSE69148GWESP I <- K <- J (#)	143	balance	balance	TRUE			0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	144	number of actors at distance 2	nbrDist2	FALSE			0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	145	number pairs at doubly achieved distance 2	nbrDist2twice	FALSE			0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	146	dense triads	denseTriads	FALSE			5	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	147		gwespFF				69	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	148		· -				69	
151GWESP I <> K <> J (#)gwespRRFALSE69152indegree - popularityinPopTRUE0153indegree - popularity (sqrt)inPopSqrtTRUE0154outdegree - popularityoutPopTRUE0dyadic155outdegree - popularity (sqrt)outPopSqrtFALSE0dyadic156indegree - activityinActFALSE0ego	149		gwespFB				69	
indegree - popularity (sqrt) inPop TRUE 0 153 indegree - popularity (sqrt) inPopSqrt TRUE 0 154 outdegree - popularity outPop TRUE 0 dyadic 155 outdegree - popularity (sqrt) outPopSqrt FALSE 0 dyadic 156 indegree - activity inAct FALSE 0 ego	150		· •					
inPopSqrt TRUE 0 154 outdegree - popularity (sqrt) outPop TRUE 0 dyadic 155 outdegree - popularity (sqrt) outPopSqrt FALSE 0 dyadic 156 indegree - activity inAct FALSE 0 ego			_					
154outdegree - popularityoutPopTRUE0 dyadic155outdegree - popularity (sqrt)outPopSqrtFALSE0 dyadic156indegree - activityinActFALSE0 ego	152		-				0	
155 outdegree - popularity (sqrt) outPopSqrt FALSE 0 dyadic 156 indegree - activity inAct FALSE 0 ego		~ · · · · · · · · · · · · · · · · ·					0	
156 indegree - activity inAct FALSE 0 ego			-				0	*
		0 11 0 (1)	1 1				0	dyadic
157 indegree - activity (sqrt) inActSqrt FALSE 0 ego		v v					0	ego
	157	indegree - activity (sqrt)	inActSqrt	FALSE			0	ego

row	effectName	shortName		inter1	inter2	parm	interactionType
158	outdegree - activity	outAct	FALSE			0	
159	outdegree - activity (sqrt)	outActSqrt	FALSE			0	
160	$\operatorname{outdegree-trunc}(\#)$	outTrunc	FALSE			5	
161	1/(outdegree + #)	outInv	FALSE			1	
162	1/(outdegree+#)(outdegree+1+#)	$\operatorname{outSqInv}$	FALSE			1	
163	in-isolate Outdegree	inIsDegree	FALSE			0	ego
164	network-isolate	isolateNet	FALSE			0	ego
165	in-isolate - popularity	inIsolatePop	TRUE			0	ego
166	isolate - popularity	isolate Pop	TRUE			0	ego
167	out-out degree $(1/\#)$ assortativity	outOutAss	TRUE			2	
168	out-in degree $(1/\#)$ assortativity	outInAss	TRUE			2	
169	in-out degree $(1/\#)$ assortativity	inOutAss	TRUE			2	
170	in-in degree $(1/\#)$ assortativity	inInAss	TRUE			2	
171	in-struct equivalence	inStructEq	FALSE			0	
dyad	Objective						
77	XXXXXX	X	TRUE	XXXXXX		0	dyadic
78	xxxxxx x reciprocity	XRecip	TRUE	XXXXXX		0	dyadic
79	WW=>X closure of xxxxxx	WWX	TRUE	XXXXXX		0	dyadic
80	WW=>X cyclic closure of xxxxxx	cyWWX	TRUE	XXXXXX		0	dyadic
81	WW=>X shared incoming xxxxxx	InWWX	TRUE	XXXXXX		0	dyadic
82	WW=>X shared outgoing xxxxxx	OutWWX	TRUE	XXXXXX		0	dyadic
83	WX=>X closure of xxxxxx	WXX	TRUE	XXXXXX		0	dyadic
84	XW=>X closure of xxxxxx	XWX	TRUE	XXXXXX		0	
coval	rNonSymmetricObjective						
102	xxxxxx alter	altX	TRUE	XXXXXX		0	dyadic
103	xxxxxx squared alter	altSqX	TRUE	XXXXXX		0	dyadic
104	xxxxxx ego	egoX	TRUE	XXXXXX		0	ego
105	xxxxxx similarity	$\sin X$	TRUE	XXXXXX		0	dyadic
106	xxxxxx similarity x reciprocity	simRecipX	TRUE	XXXXXX		0	dyadic
107	transitive triplets xxxxxx similarity	simXTransTrip	TRUE	XXXXXX		0	dyadic
108	same xxxxxx	sameX	TRUE	XXXXXX		0	dyadic
109	same xxxxxx x reciprocity	sameXRecip	TRUE	XXXXXX		0	dyadic
110	transitive triplets same xxxxxx	sameXTransTrip	TRUE	XXXXXX		0	v
111	transitive triplets jumping xxxxxx	jumpXTransTrip	TRUE	XXXXXX		0	
112	xxxxxx ego x xxxxxx alter	egoXaltX	TRUE	XXXXXX		0	dyadic
_	0	0	-				J

114 115 116	xxxxxx ego x xxxxxx alter x recipr. higher xxxxxx xxxxxx of indirect ties xxxxxx alter at distance 2 (#)	egoXaltXRecip higher IndTies	TRUE TRUE	XXXXXX	0	interactionType dyadic
114 115 116	higher xxxxxx xxxxxx of indirect ties xxxxxx alter at distance 2 (#)	higher IndTies		VVVVVVV		
116	xxxxxx alter at distance 2 (#)	$\operatorname{IndTies}$		XXXXXX	0	dyadic
		altDiat9	FALSE	XXXXXX	0	dyadic
		altDist2	TRUE	XXXXXX	1	dyadic
	xxxxxx similarity at distance 2	$\operatorname{simDist2}$	TRUE	XXXXXX	0	dyadic
unspe	cifiedNetInteraction					·
190	unspecified interaction effect	unspInt	TRUE		0	
nonSy	vmmetricNonSymmetricObjective					
201	XXXXXX	crprod	TRUE	XXXXXX	0	dyadic
202	reciprocity with xxxxxx	$\operatorname{crprodRecip}$	TRUE	XXXXXX	0	dyadic
203	mutuality with xxxxxx	$\operatorname{crprodMutual}$	TRUE	XXXXXX	0	dyadic
204	indegree $(1/\#)$ xxxxxx popularity	${ m inPopIntn}$	TRUE	XXXXXX	2	dyadic
205	indegree $(1/\#)$ xxxxxx activity	${\rm in} {\rm Act} {\rm Intn}$	TRUE	XXXXXX	2	ego
206	outdegree (1/#) xxxxxx popularity	$\operatorname{outPopIntn}$	TRUE	XXXXXX	2	dyadic
207	outdegree (1/#) xxxxxx activity	$\operatorname{outActIntn}$	TRUE	XXXXXX	2	dyadic
208	both indegrees $(1/\#)$ xxxxxx	both	TRUE	XXXXXX	2	dyadic
209	betweenness $(1/\#)$ xxxxxx popularity	betweenPop	TRUE	XXXXXX	2	dyadic
210	from xxxxxx agreement	from	TRUE	XXXXXX	0	dyadic
211	from xxxxxx mutual agr.	${ m from} { m Mutual}$	TRUE	XXXXXX	0	dyadic
212	xxxxxx to agreement	to	TRUE	XXXXXX	0	dyadic
213	closure of xxxxxx	closure	TRUE	XXXXXX	0	dyadic
214	cyclic closure of xxxxxx	$\operatorname{cyClosure}$	TRUE	XXXXXX	0	dyadic
215	shared incoming xxxxxx	$\operatorname{sharedIn}$	TRUE	XXXXXX	0	dyadic
nonSy	vmmetricSymmetricObjective					
192	XXXXXX	crprod	TRUE	XXXXXX	0	dyadic
193	$degree^{(1/\#)}$ xxxxxx popularity	${ m inPopIntn}$	TRUE	XXXXXX	2	dyadic
194	indegree $(1/\#)$ xxxxxx activity	${ m inActIntn}$	TRUE	XXXXXX	2	ego
195	outdegree $(1/\#)$ xxxxxx popularity	$\operatorname{outPopIntn}$	TRUE	XXXXXX	2	dyadic
	degree $(1/\#)$ xxxxxx activity	${ m inActIntn}$	TRUE	XXXXXX	2	ego
197	both degrees $(1/\#)$ xxxxxx	both	TRUE	XXXXXX	2	dyadic
198	from xxxxxx agreement	from	TRUE	XXXXXX	0	dyadic
199	xxxxxx to agreement	to	TRUE	XXXXXX	0	dyadic
200	closure of xxxxxx	closure	TRUE	XXXXXX	0	dyadic
nonSy	vmmetricBipartiteObjective					
220	outdegree^(1/#) xxxxxx popularity	outPopIntn	TRUE	XXXXXX	2	dyadic

row	effectName	$\operatorname{shortName}$	endow?	inter1	inter2	parm	interactionType
221	outdegree $(1/\#)$ xxxxxx activity	${ m outActIntn}$	TRUE	XXXXXX		2	dyadic
222	from xxxxxx agreement	from	TRUE	XXXXXX		0	dyadic
coval	rNetNetObjective						
226	from xxxxxx agr. x same yyyyyy	covNetNet	TRUE	XXXXXX	уууууу	0	dyadic
227	xxxxxx closure jumping yyyyyy	jumpWWClosure	TRUE	XXXXXX	уууууу	0	dyadic
228	mixed xxxxxx closure jumping yyyyyy	jumpWXClosure	TRUE	XXXXXX	уууууу	0	dyadic
229	yyyyyy alter at distance 2 on xxxxxx (#)	altDist2W	TRUE	XXXXXX	уууууу	1	
230	yyyyyy similarity at distance 2 on xxxxxx	simDist2W	TRUE	XXXXXX	уууууу	0	
symr	netricObjective						
172	degree (density)	density	TRUE			0	ego
173	transitive triads	transTriads	TRUE			0	
174	transitive ties	transTies	TRUE			0	
175	betweenness	between	FALSE			0	
176	balance	balance	TRUE			0	
177	number of actor pairs at distance 2	nbrDist2	FALSE			0	
178	number pairs at doubly achieved distance 2	nbrDist2twice	FALSE			0	
179	degree of alter	inPop	TRUE			0	
180	sqrt degree of alter	inPopSqrt	TRUE			0	
181	$degree^{(1.5)}$	$\operatorname{outActSqrt}$	FALSE			0	
182	outdegree-trunc(#)	$\operatorname{outTrunc}$	FALSE			5	
183	1/(degree + #)	outInv	FALSE			1	
184	1/(degree+#)(degree+1+#)	$\operatorname{outSqInv}$	FALSE			1	
185	network-isolate	$\overline{\mathrm{isolateNet}}$	FALSE			0	ego
186	$degree^{(1/\#)}$ assortativity	$\operatorname{outOutAss}$	TRUE			2	
dyad	Objective						
77	XXXXXX	X	TRUE	XXXXXX		0	dyadic
78	xxxxxx x reciprocity	XRecip	TRUE	XXXXXX		0	dyadic
79	WW=>X closure of xxxxxx	WWX	TRUE	XXXXXX		0	dyadic
80	WW=>X cyclic closure of xxxxxx	cyWWX	TRUE	XXXXXX		0	dyadic
81	WW=>X shared incoming xxxxxx	InWWX	TRUE	XXXXXX		0	dyadic
82	WW=>X shared outgoing xxxxxx	OutWWX	TRUE	XXXXXX		0	dyadic
83	WX=>X closure of xxxxxx	WXX	TRUE	XXXXXX		0	dyadic
84	XW=>X closure of xxxxxx	XWX	TRUE	XXXXXX		0	V
coval	rSymmetricObjective						
89	XXXXXX	altX	TRUE	XXXXXX		0	dyadic
						9	J

row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
90	xxxxxx squared	altSqX	TRUE	XXXXXX		0	dyadic
91	xxxxxx similarity	$\sin X$	TRUE	XXXXXX		0	dyadic
92	same xxxxxx	sameX	TRUE	XXXXXX		0	dyadic
93	xxxxxx ego x xxxxxx alter	$\operatorname{egoXaltX}$	TRUE	XXXXXX		0	dyadic
94	xxxxxx of indirect ties	IndTies	FALSE	XXXXXX		0	dyadic
95	xxxxxx alter at distance 2 (#)	altDist2	TRUE	XXXXXX		1	dyadic
96	xxxxxx similarity at distance 2	simDist2	TRUE	XXXXXX		0	dyadic
ınsp	ecifiedNetInteraction						
	unspecified interaction effect	unspInt	TRUE			0	
oipai	rtiteObjective						
122	outdegree (density)	density	TRUE			0	dyadic
23	4-cycles	cycle4	TRUE			1	•
24	indegree - popularity	inPop	TRUE			0	
125	indegree - popularity (sqrt)	inPopSqrt	TRUE			0	
26	outdegree - activity	outAct	FALSE			0	
27	outdegree - activity (sqrt)	${ m outActSqrt}$	FALSE			0	
28	outdegree-trunc(#)	$\operatorname{outTrunc}$	FALSE			5	
29	1/(outdegree + #)	outInv	FALSE			1	
.30	1/(outdegree+#)(outdegree+1+#)	$\operatorname{outSqInv}$	FALSE			1	
131	in-isolate - popularity	inIsolatePop	TRUE			0	ego
132	1/(outdegree + #)	outInv	FALSE			1	_
133	1/(outdegree+#)(outdegree+1+#)	$\operatorname{outSqInv}$	FALSE			1	
134	out-in degree $(1/2)$ assortativity	$\operatorname{outInAss}$	TRUE			2	
lyad	Objective						
77	XXXXXX	X	TRUE	XXXXXX		0	dyadic
78	xxxxxx x reciprocity	XRecip	TRUE	XXXXXX		0	dyadic
79	WW=>X closure of xxxxxx	WWX	TRUE	XXXXXX		0	dyadic
80	WW=>X cyclic closure of xxxxxx	cyWWX	TRUE	XXXXXX		0	dyadic
81	WW=>X shared incoming xxxxxx	InWWX	TRUE	XXXXXX		0	dyadic
82	WW=>X shared outgoing xxxxxx	OutWWX	TRUE	XXXXXX		0	dyadic
83	WX=>X closure of xxxxxx	WXX	TRUE	XXXXXX		0	dyadic
84	XW=>X closure of xxxxxx	XWX	TRUE	XXXXXX		0	
covai	rBipartiteObjective						
97	xxxxxx alter	altX	TRUE	XXXXXX		0	dyadic
98	xxxxxx squared alter	altSqX	TRUE	XXXXXX		0	dyadic

row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
99	xxxxxx ego	egoX	TRUE	XXXXXX		0	ego
100	xxxxxx alter at distance 2	altDist2	TRUE	XXXXXX		1	dyadic
101	xxxxxx similarity at distance 2	simDist2	TRUE	XXXXXX		0	dyadic
unsp	ecifiedNetInteraction						
190	unspecified interaction effect	unspInt	TRUE			0	
bipar	rtiteNonSymmetricObjective						
216	outdegree (1/#) xxxxxx activity	outActIntn	TRUE	XXXXXX		2	dyadic
217	xxxxxx to agreement	to	TRUE	XXXXXX		0	dyadic
bipa	rtiteSymmetricObjective						
218	degree $(1/\#)$ xxxxxx activity	outActIntn	TRUE	XXXXXX		2	dyadic
219	xxxxxx to agreement	to	TRUE	XXXXXX		0	dyadic
bipa	rtiteBipartiteObjective						
223	XXXXXX	crprod	TRUE	XXXXXX		0	dyadic
224	indegree $(1/\#)$ xxxxxx popularity	inPopIntn	TRUE	XXXXXX		2	dyadic
225	outdegree $(1/\#)$ xxxxxx activity	$\operatorname{outActIntn}$	TRUE	XXXXXX		2	dyadic
coval	rNetNetObjective						
226	from xxxxxx agr. x same yyyyyy	covNetNet	TRUE	XXXXXX	уууууу	0	dyadic
227	xxxxxx closure jumping yyyyyy	jumpWWClosure	TRUE	XXXXXX	уууууу	0	dyadic
228	mixed xxxxxx closure jumping yyyyyy	jumpWXClosure	TRUE	XXXXXX	уууууу	0	dyadic
229	yyyyyy alter at distance 2 on xxxxxx (#)	altDist2W	TRUE	XXXXXX	уууууу	1	
230	yyyyyy similarity at distance 2 on xxxxxx	$\sin Dist 2W$	TRUE	XXXXXX	уууууу	0	
beha	viorObjective						
46	behavior xxxxxx linear shape	linear	TRUE			0	OK
47	behavior xxxxxx quadratic shape	quad	TRUE			0	
beha	viorOneModeObjective						
1	behavior xxxxxx average similarity	avSim	TRUE	уууууу		0	
2	behavior xxxxxx total similarity	totSim	TRUE	уууууу		0	
3	behavior xxxxxx indegree	indeg	TRUE	уууууу		0	OK
4	behavior xxxxxx outdegree	outdeg	TRUE	уууууу		0	OK
5	behavior xxxxxx isolate	isolate	FALSE	уууууу		0	OK
6	behavior xxxxxx ave. sim. x reciprocity	avSimRecip	FALSE	уууууу		0	
7	behavior xxxxxx tot. sim. x reciprocity	totSimRecip	FALSE	уууууу		0	
8	behavior xxxxxx ave. sim. x popularity alter	avSimPopAlt	FALSE	уууууу		0	
9	behavior xxxxxx tot. sim. x popularity alter	totSimPopAlt	FALSE	уууууу		0	

row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
10	behavior xxxxxx x popularity alter	popAlt	FALSE	уууууу		0	ОК
11	behavior xxxxxx ave. sim. x rec. x pop. (alter)	avSimRecPop	FALSE	уууууу		0	
12	behavior xxxxxx tot. sim. x rec. x pop. (alter)	totSimRecPop	FALSE	уууууу		0	
13	behavior xxxxxx average alter	avAlt	TRUE	уууууу		0	OK
14	behavior xxxxxx average rec. alters	avRecAlt	FALSE	уууууу		0	OK
15	behavior xxxxxx dense triads	behDenseTriads	FALSE	уууууу		5	OK
16	behavior xxxxxx similarity in dense triads	simDenseTriads	FALSE	уууууу		5	OK
17	behavior xxxxxx reciprocated degree	$\operatorname{recipDeg}$	FALSE	уууууу		0	OK
18	behavior xxxxxx ave. sim. x popularity ego	avSimPopEgo	TRUE	уууууу		0	
beha	viorSymmetricObjective						
19	behavior xxxxxx average similarity	avSim	TRUE	уууууу		0	
20	behavior xxxxxx total similarity	totSim	TRUE	уууууу		0	
21	behavior xxxxxx degree	outdeg	TRUE	уууууу		0	OK
22	behavior xxxxxx isolate	isolate	FALSE	уууууу		0	OK
23	behavior xxxxxx ave. sim. x reciprocity	avSimRecip	FALSE	уууууу		0	
24	behavior xxxxxx tot. sim. x reciprocity	totSimRecip	FALSE	уууууу		0	
25	behavior xxxxxx ave. sim. x popularity alter	avSimPopAlt	FALSE	уууууу		0	
26	behavior xxxxxx tot. sim. x popularity alter	totSimPopAlt	FALSE	уууууу		0	
27	behavior xxxxxx x popularity alter	popAlt	FALSE	уууууу		0	OK
28	behavior xxxxxx ave. sim. x rec. x pop. (alter)	avSimRecPop	FALSE	уууууу		0	
29	behavior xxxxxx tot. sim. x rec. x pop. (alter)	totSimRecPop	FALSE	уууууу		0	
30	behavior xxxxxx average alter	avAlt	TRUE	уууууу		0	OK
31	behavior xxxxxx average rec. alters	avRecAlt	FALSE	уууууу		0	OK
32	behavior xxxxxx dense triads	behDenseTriads	FALSE	уууууу		5	OK
33	behavior xxxxxx similarity in dense triads	simDenseTriads	FALSE	уууууу		5	OK
34	behavior xxxxxx ave. sim. x popularity ego	avSimPopEgo	TRUE	уууууу		0	
	viorBipartiteObjective						
35	behavior xxxxxx average similarity	avSim	TRUE	уууууу		0	
36	behavior xxxxxx total similarity	totSim	TRUE	уууууу		0	
	behavior xxxxxx outdegree	outdeg	TRUE	уууууу		0	OK
38	behavior xxxxxx isolate	isolate	FALSE	уууууу		0	OK
39	behavior xxxxxx ave. sim. x popularity alter	avSimPopAlt	FALSE	уууууу		0	
40	behavior xxxxxx tot. sim. x popularity alter	totSimPopAlt	FALSE	уууууу		0	
41	behavior xxxxxx x popularity alter	popAlt	FALSE	уууууу		0	OK
42	behavior xxxxxx average alter	avAlt	TRUE	уууууу		0	OK

row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
43	behavior xxxxxx dense triads	behDenseTriads	FALSE	уууууу		0	OK
44	behavior xxxxxx similarity in dense triads	simDenseTriads	FALSE	уууууу		0	OK
45	behavior xxxxxx ave. sim. x popularity ego	avSimPopEgo	TRUE	уууууу		0	
covai	BehaviorObjective						
86	behavior xxxxxx: effect from yyyyyy	effFrom	TRUE	уууууу		0	OK
-	ecifiedBehaviorInteraction						
191	behavior xxxxxx: unspecified interaction	behUnspInt	TRUE			0	