row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
nonS	Symmetric Rate						· -
63	basic rate parameter xxxxxx	Rate	FALSE			0	_
64	constant xxxxxx rate (period nnnnnn)	Rate	FALSE			0	
65	outdegree effect on rate xxxxxx	$\operatorname{outRate}$	FALSE			0	
66	indegree effect on rate xxxxxx	inRate	FALSE			0	
67	reciprocity effect on rate xxxxxx	$\operatorname{recipRate}$	FALSE			0	
68	effect 1/outdegree on rate xxxxxx	${ m outRateInv}$	FALSE			0	
69	effect ln(outdegree+1) on rate xxxxxx	$\operatorname{outRateLog}$	FALSE			1	
cova	rNonSymmetricRate						
207	effect xxxxxx on rate	RateX	FALSE	XXXXXX		0	
symi	metricRate						
75	basic rate parameter xxxxxx	Rate	FALSE			0	
76	constant xxxxxx rate (period nnnnnn)	Rate	FALSE			0	
77	degree effect on rate xxxxxx	outRate	FALSE			0	
78	effect 1/degree on rate xxxxxx	$\operatorname{outRateInv}$	FALSE			0	
79	effect $ln(degree+1)$ on rate xxxxxx	${ m outRateLog}$	FALSE			1	
	rSymmetricRate						
206	effect xxxxxx on rate	RateX	FALSE	XXXXXX		0	
bipa	rtiteRate						
70	basic rate parameter xxxxxx	Rate	FALSE			0	
71	constant xxxxxx rate (period nnnnnn)	Rate	FALSE			0	
72	outdegree effect on rate xxxxxx	outRate	FALSE			0	
73	effect 1/outdegree on rate xxxxxx	outRateInv	FALSE			0	
74	effect ln(outdegree+1) on rate xxxxxx	${ m outRateLog}$	FALSE			1	
cova	rBipartiteRate						
208	effect xxxxxx on rate	RateX	FALSE	XXXXXX		0	
beha	viorRate						
48	rate xxxxxx period 1	Rate	FALSE			0	
49	rate xxxxxx (period nnnnnn)	Rate	FALSE			0	
beha	viorOneModeRate						
50	outdegree effect on rate xxxxxx	outRate	FALSE	уууууу		0	
51	indegree effect on rate xxxxxx	inRate	FALSE	уууууу		0	
52	reciprocated effect on rate xxxxxx	recipRate	FALSE	уууууу		0	
53	average exposure effect on rate xxxxxx	avExposure	FALSE	уууууу		0	

row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
54	susceptibility to av. exp. by indegree effect on rate xxxxxx	susceptAvIn	FALSE	уууууу		0	
55	total exposure effect on rate xxxxxx	totExposure	FALSE	уууууу		0	
56	infection by indegree effect on rate xxxxxx	infectIn	FALSE	уууууу		0	
57	infection by outdegree effect on rate xxxxxx	infectOut	FALSE	уууууу		0	
beha	viorSymmetricRate						
58	degree effect on rate xxxxxx	outRate	FALSE	уууууу		0	
covai	rBehaviorOneModeRate						
59	susceptibility to av. exp. by zzzzzz effect on rate xxxxxx	susceptAvCovar	FALSE	уууууу	ZZZZZZ	0	
60	infection by zzzzzz effect on rate xxxxxx	infectCovar	FALSE	уууууу	ZZZZZZ	0	
beha	viorBipartiteRate						
61	outdegree effect on rate xxxxxx	outRate	FALSE	уууууу		0	
62	reciprocated effect on rate xxxxxx	recipRate	FALSE	уууууу		0	
covai	rBehaviorRate						
131	effect yyyyyy on rate xxxxxx	RateX	FALSE	уууууу		0	
nonS	ymmetricObjective						
147	outdegree (density)	density	TRUE			0	dyadic
148	reciprocity	recip	TRUE			0	dyadic
149	transitive triplets	transTrip	TRUE			0	
150	transitive mediated triplets	trans Med Trip	TRUE			0	
151	transitive reciprocated triplets	transRecTrip	TRUE			0	
152	3-cycles	cycle3	TRUE			0	
153	transitive ties	transTies	TRUE			0	
154	betweenness	between	FALSE			0	
155	balance	balance	TRUE			0	
156	number of actors at distance 2	nbrDist2	FALSE			0	
157	number pairs at doubly achieved distance 2	nbrDist2twice	FALSE			0	
158	dense triads	dense Triads	FALSE			5	
159	GWESP I -> K -> J $(\#)$	gwespFF	FALSE			69	
160	GWESP I <- K <- J (#)	gwespBB	FALSE			69	
161	GWESP I \leftarrow K \rightarrow J (#)	gwespFB	FALSE			69	
162	GWESP I -> K <- J $(\#)$	gwespBF	FALSE			69	
163	GWESP I \ll X \ll J (#)	gwespRR	FALSE			69	
164	shared popularity	$\operatorname{sharedPop}$	TRUE			1	
165	indegree - popularity	inPop	TRUE			0	
166	indegree - popularity (sqrt)	inPopSqrt	TRUE			0	

row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
167	outdegree - popularity	outPop	TRUE			0	dyadic
168	outdegree - popularity (sqrt)	outPopSqrt	FALSE			0	dyadic
169	indegree - activity	inAct	FALSE			0	ego
170	indegree - activity (sqrt)	inActSqrt	FALSE			0	ego
171	outdegree - activity	outAct	FALSE			0	
172	outdegree - activity (sqrt)	outActSqrt	FALSE			0	
173	outdegree-trunc(#)	outTrunc	FALSE			1	
174	outdegree-trunc(#)	outTrunc2	FALSE			5	
175	1/(outdegree + #)	outInv	FALSE			1	
176	1/(outdegree+#)(outdegree+1+#)	$\operatorname{outSqInv}$	FALSE			1	
177	in-isolate Outdegree	inIsDegree	FALSE			0	ego
178	network-isolate	isolateNet	FALSE			0	ego
179	anti isolates	antiIso	TRUE			0	ego
180	anti in-isolates	antiInIso	TRUE			0	ego
181	anti in-near-isolates	antiInIso2	TRUE			0	ego
182	isolate - popularity	isolate Pop	TRUE			0	ego
183	out-out degree $(1/\#)$ assortativity	outOutAss	TRUE			2	
184	out-in degree $(1/\#)$ assortativity	outInAss	TRUE			2	
185	in-out degree $(1/\#)$ assortativity	inOutAss	TRUE			2	
186	in-in degree $(1/\#)$ assortativity	inInAss	TRUE			2	
187	in-struct equivalence	inStructEq	FALSE			0	
dyad	Objective						
80	XXXXXX	X	TRUE	XXXXXX		0	dyadic
81	xxxxxx x reciprocity	XRecip	TRUE	XXXXXX		0	dyadic
82	WW=>X closure of xxxxxx	WWX	TRUE	XXXXXX		0	dyadic
83	WW=>X cyclic closure of xxxxxx	cyWWX	TRUE	XXXXXX		0	dyadic
84	WW=>X shared incoming xxxxxx	InWWX	TRUE	XXXXXX		0	dyadic
85	WW=>X shared outgoing xxxxxx	OutWWX	TRUE	XXXXXX		0	dyadic
86	WX=>X closure of xxxxxx	WXX	TRUE	XXXXXX		0	dyadic
87	XW=>X closure of xxxxxx	XWX	TRUE	XXXXXX		0	
covai	rNonSymmetricObjective						
111	xxxxxx alter	altX	TRUE	XXXXXX		0	dyadic
112	xxxxxx squared alter	altSqX	TRUE	XXXXXX		0	dyadic
113	xxxxxx ego	egoX	TRUE	XXXXXX		0	ego
114	xxxxxx similarity	sim X	TRUE	XXXXXX		0	dyadic

15	rom	effectName	shortName	endow?	inter1	inter2	narm	interactionType
16 transitive triplets xxxxxx x similarity	row 115					1110612	parm	interactionType dyadic
17 Same XXXXXX Same XXXXXX Same XXXXXX O dyadic 18 Same XXXXXX Same XXXXXX Same XXXXXX O dyadic 19 transitive triplets same XXXXXX SameXTransTrip TRUE XXXXXX 20 transitive triplets homeg, XXXXXX homXTransTrip TRUE XXXXXX 21 transitive triplets jumping XXXXXX jumpXTransTrip TRUE XXXXXX 22 XXXXXX sego x XXXXXX alter x recipr. egoXaltX TRUE XXXXXX O dyadic 23 XXXXXX sego x XXXXXX der x recipr. egoXaltX RUE XXXXXX O dyadic 24 higher XXXXXX higher TRUE XXXXXX O dyadic 25 XXXXXX ster at distance 2 (#) altDist2 TRUE XXXXXX O dyadic 26 XXXXXX ster at distance 2 (#) altDist2 TRUE XXXXXX O dyadic 27 XXXXXX steriat distance 2 simDist2 TRUE XXXXXX O dyadic 25 XXXXXX steriat distance 2 misplit TRUE O 26 XXXXXX steriat distance 2 misplit TRUE XXXXXX O dyadic 27 XXXXXX steriat distance 2 misplit TRUE O 20 XXXXXX steriat distance 2 misplit TRUE O 21 XXXXXX der xi distance 2 misplit TRUE XXXXXX O dyadic 22 xxi xxxx criprod TRUE XXXXXX O dyadic 24 indegree (1/#) XXXXXX criprod TRUE XXXXXX O dyadic 25 indegree (1/#) XXXXXX criprod TRUE XXXXXX O dyadic 26 indegree (1/#) XXXXXX criprod TRUE XXXXXX O dyadic 27 outdegree (1/#) XXXXXX criprod TRUE XXXXXX O dyadic 28 both indegrees (1/#) XXXXXX down			*					•
18 same XXXXXX x reciprocity sameXRecip TRUE XXXXXX 0 dyadic 19 transitive triplets name XXXXXX sameXTransTrip TRUE XXXXXX 0 21 transitive triplets formog, XXXXXX jumpXTransTrip TRUE XXXXXX 0 22 XXXXXX age xXXXXXX alter egoXalt X TRUE XXXXXX 0 dyadic 23 XXXXXX sater x recipr. egoXalt X TRUE XXXXXX 0 dyadic 24 higher XXXXXX higher TRUE XXXXXX 0 dyadic 25 XXXXXX alter x recipr. higher TRUE XXXXXX 0 dyadic 26 XXXXXX alter x feeth			-					•
19 transitive triplets same xxxxxx								v
20			-					dyadic
1		-	-					
22		1 0	-					
23								dvadia
24 higher xxxxxx higher TRUE xxxxxxx 0 dyadic 25 xxxxxxx of indirect ties IndTies FALSE xxxxxxx 0 dyadic 26 xxxxxx after at distance 2 (#) altDist2 TRUE xxxxxxx 1 dyadic 27 xxxxxx similarity at distance 2 simDist2 TRUE xxxxxxx 0 dyadic 28 xxxxxx similarity at distance 2 simDist2 TRUE xxxxxxx 0 dyadic 29 unspecified interaction effect unspInt TRUE xxxxxx 0 dyadic 20 xxxxxx crprod TRUE xxxxxx 0 dyadic 21 xxxxxx crprodRecip TRUE xxxxxxx 0 dyadic 22 reciprocity with xxxxxx crprodRecip TRUE xxxxxxx 0 dyadic 23 mutuality with xxxxxx crprodMutual TRUE xxxxxxx 0 dyadic 24 indegree 1/#) xxxxxx activity inActIntn TRUE xxxxxxx 2 dyadic 25 indegree (1/#) xxxxxx activity outPopIntn TRUE xxxxxxx 2 dyadic 26 outdegree (1/#) xxxxxx activity outActIntn TRUE xxxxxxx 2 dyadic 27 outdegree (1/#) xxxxxx activity outActIntn TRUE xxxxxxx 2 dyadic 28 both indegrees (1/#) xxxxxx popularity betweenPop TRUE xxxxxx 2 dyadic 29 betweenness (1/#) xxxxxx popularity betweenPop TRUE xxxxxxx 2 dyadic 30 from xxxxxx agreement from TRUE xxxxxx 0 dyadic 31 from xxxxxx mutual agr. fromMutual TRUE xxxxxx 0 dyadic 32 xxxxxx to agreement to TRUE xxxxxx 0 dyadic 33 XWX closure of xxxxxx closure TRUE xxxxxx 0 dyadic 34 closure of xxxxxx closure TRUE xxxxxx 0 dyadic 35 cyclic closure of xxxxxx closure TRUE xxxxxx 0 dyadic 36 shared incoming xxxxxx closure TRUE xxxxxx 0 dyadic 36 shared incoming xxxxxx closure TRUE xxxxxx 0 dyadic 37 xxxxx closure of xxxxxx closure TRUE xxxxxx 0 dyadic 38 xxxxx closure of xxxxxx closure TRUE xxxxxx 0 dyadic 39 xxxxx closure of xxxxxx closure TRUE xxxxxx 0 dyadic 30 xxxxx closure of xxxxxx closure TRUE xxxxxx 0 dyadic 38 xxxxx closure of xxxxxx closure TRUE xxxxxx 0 dyadi			0					•
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26 xxxxxx alter at distance 2 (#) altDist2 TRUE xxxxxx 1 dyadic 27 xxxxxx similarity at distance 2 simDist2 TRUE xxxxxx 0 dyadic 18 mspecifiedNetInteraction 19 unspecified interaction effect unspInt TRUE 0 10 unspecified interaction effect unspInt TRUE xxxxxx 0 dyadic 21 xxxxxx crprod TRUE xxxxxx 0 dyadic 22 reciprocity with xxxxxx crprodRecip TRUE xxxxxx 0 dyadic 23 mutuality with xxxxxx crprodMutual TRUE xxxxxx 0 dyadic 24 indegree (1/#) xxxxxx popularity inPopIntn TRUE xxxxxx 2 dyadic 25 indegree (1/#) xxxxxx popularity inActIntn TRUE xxxxxx 2 dyadic 26 outdegree (1/#) xxxxxx popularity outPopIntn TRUE xxxxxx 2 dyadic 27 outdegree (1/#) xxxxxx activity outActIntn TRUE xxxxxx 2 dyadic 28 both indegrees (1/#) xxxxxx popularity betweenPop TRUE xxxxxx 2 dyadic 29 betweenness (1/#) xxxxxx popularity betweenPop TRUE xxxxxx 2 dyadic 20 betweeness (1/#) xxxxxx popularity betweenPop TRUE xxxxxx 2 dyadic 21 from xxxxxx mutual agr. from TRUE xxxxxx 0 dyadic 23 from xxxxxx mutual agr. from TRUE xxxxxx 0 dyadic 24 closure of xxxxxx closure of xxxxxx 0 dyadic 25 cyclic closure of xxxxxx 2 closure TRUE xxxxxx 0 dyadic 26 dyadic 27 xxxxxx 2 closure TRUE xxxxxx 0 dyadic 28 dyadic 29 dyadic 20 dyadic 21 from xxxxxx mutual agr. from TRUE xxxxxx 0 dyadic 22 dyadic 23 xxxxxx to agreement to TRUE xxxxxx 0 dyadic 24 dyadic 25 dyadic 26 dyadic 27 dyadic 28 dyadic 29 dyadic 20 dyadic 20 dyadic 20 dyadic 21 dyadic 22 dyadic 23 from xxxxxx mutual agr. from TRUE xxxxxx 0 dyadic 24 dyadic 25 dyadic 26 dyadic 27 dyadic 28 dyadic 29 dyadic 20 dyadic 20 dyadic 20 dyadic 21 dyadic 21 dyadic 22 dyadic 23 dyadic 24 dyadic 25 dyadic 26 dyadic 27 dyadic 28 dyadic 29 dyadic 20 dyadic 20 dyadic 20 dyadic 21 dyadic 21 dyadic 22 dyadic 23 dyadic 24 dyadic 25 dyadic 26 dyadic 27 dyadic 28 dyadic 29 dyadic 20 dyadic 20 dyadic 20 dyadic 21 dyadic 21 dyadic 22 dyadic 23 dyadic 24 dyadic 25 dyadic 26 dyadic 27 dyadic 28 dyadic 29 dyadic 20 dyadic 20 dyadic 20 dyadic 21		<u> </u>	_				0	•
27 xxxxxx similarity at distance 2 simDist2 TRUE xxxxxx 0 dyadic inspecified NetInteraction 109 unspecified interaction effect unspInt TRUE 0 121 xxxxxx crprod TRUE xxxxxx 0 dyadic interaction effect orprodictive 122 reciprocity with xxxxxx crprodRecip TRUE xxxxxx 0 dyadic indegree or							1	•
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onsymmetricNonSymmetricObjective crprod TRUE xxxxxx 0 dyadic reciprocity with xxxxxx crprodMutual TRUE xxxxxx 0 dyadic reprodMutual TRUE xxxxxx 2 dyadic reprodmetricObjective consymmetricNonSymmetricObjective crprodMutual TRUE xxxxxx 0 dyadic reprodMutual true xxxxxx 0 dyadic reprodMutual rrue xxxxxx 2 dyadic reprodMutual rrue xxxxxx 2 dyadic reprodmetricObjective crprodMutual TRUE xxxxxx 2 dyadic reprodMutual rrue xxxxxx 2 dyadic reprodmetricObjective crprodMutual TRUE xxxxxx 3 dyadic reprodmetricObjective		· ·	SIIIDIStZ	IRUE	XXXXXX		0	<u>ayaarc</u>
consymmetricNonSymmetricObjective 221 xxxxxx			unanInt	TDIIE			0	
crprod TRUE xxxxxx 0 dyadic reciprocity with xxxxxx crprodMutual TRUE xxxxxx 0 dyadic mutuality with xxxxxx crprodMutual TRUE xxxxxx 0 dyadic indegree^(1/#) xxxxxxx popularity inPopIntn TRUE xxxxxx 2 dyadic indegree^(1/#) xxxxxx activity inActIntn TRUE xxxxxx 2 ego cutdegree^(1/#) xxxxxx activity outPopIntn TRUE xxxxxx 2 dyadic cutdegree^(1/#) xxxxxx activity outActIntn TRUE xxxxxx 2 dyadic cutdegree^(1/#) xxxxxx activity outActIntn TRUE xxxxxx 2 dyadic cutdegree^(1/#) xxxxxx activity outActIntn TRUE xxxxxx 2 dyadic cutdegree^(1/#) xxxxxx both TRUE xxxxxx 2 dyadic cutdegree^(1/#) xxxxxx cutivity outActIntn TRUE xxxxxx 2 dyadic cutdegree^(1/#) xxxxxx 3 doutdegree^(1/#) xxxxxx 3 dyadic cutdegree^(1/#) xxxxxx 4 dyadic cutdegree		1	unspint	TRUE			0	
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mutuality with xxxxxx crycodMutual TRUE xxxxxx 0 dyadic indegree^(1/#) xxxxxx popularity inPopIntn TRUE xxxxxx 2 dyadic indegree^(1/#) xxxxxx activity inActIntn TRUE xxxxxx 2 ego outdegree^(1/#) xxxxxx popularity outPopIntn TRUE xxxxxx 2 dyadic outdegree^(1/#) xxxxxx activity outActIntn TRUE xxxxxx 2 dyadic outdegree^(1/#) xxxxxx activity outActIntn TRUE xxxxxx 2 dyadic outdegree^(1/#) xxxxxx activity outActIntn TRUE xxxxxx 2 dyadic outdegree^(1/#) xxxxxx 3 dyadic outdegree^(1/#) xxxxxx 3 dyadic outdegree^(1/#) xxxxxx 3 dyadic outdegree^(1/#) xxxxxx 4 dyadic outdegree^(1/#) xxxxxx 5 dyadic outdegree			-					v
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outdegree^(1/#) xxxxxx popularity outPopIntn TRUE xxxxxx 2 dyadic continuous both indegrees^(1/#) xxxxxx activity outActIntn TRUE xxxxxx 2 dyadic continuous both indegrees^(1/#) xxxxxx both TRUE xxxxxx 2 dyadic continuous betweenPop TRUE xxxxxx 2 dyadic continuous from xxxxxx agreement from TRUE xxxxxx 0 dyadic continuous from xxxxxx mutual agr. fromMutual TRUE xxxxxx 0 dyadic continuous from xxxxxx continuous from true xxxxxx 0 dyadic continuous from xxxxxx continuous from true xxxxxx 0 dyadic continuous from xxxxxxx 0 dyadic co			-					•
outdegree^(1/#) xxxxxx activity out ActIntn TRUE xxxxxx 2 dyadic both indegrees^(1/#) xxxxxx 2 dyadic both indegrees^(1/#) xxxxxx 2 dyadic both indegrees^(1/#) xxxxxx 2 dyadic betweenness^(1/#) xxxxxx popularity betweenPop TRUE xxxxxx 2 dyadic both indegrees^(1/#) xxxxxx 3 dyadic both indegrees^(1/#) xxxxxx 4 dyadic both indegrees^(1/#) xxxxxx 4 dyadic both indegrees^(1/#) xxxxxx 5 dyadic both indegrees^(1/#) xxxxxx 6 dyadic both indegrees^(1/#) xxxxxx 7 dyadic both indegrees^(1/#) xxxxxx 8 dyadic both indegrees^(1/#) xxxxxx 9 dyadic both indegrees^(1/#) xxxxxx 9 dyadic both indegrees^(1/#) xxxxxx 10 dyadic both indegrees^(1/#								_
both indegrees \(^{1}\mu) \text{ xxxxxx} \\ 2 \text{ dyadic} \\ 29 \text{ between Pop} \text{TRUE} \text{ xxxxxx} \\ 20 \text{ dyadic} \\ 20 \text{ from xxxxxx agreement} \text{ from} \text{TRUE} \text{ xxxxxx} \\ 21 \text{ dyadic} \\ 23 \text{ from xxxxxx mutual agr.} \text{ from Mutual} \text{TRUE} \text{ xxxxxx} 0 \text{ dyadic} \\ 23 \text{ xxxxxx} \text{ to agreement} \text{ to} \text{ TRUE} \text{ xxxxxx} 0 \\ 23 \text{ xVXX} \text{ to agreement} \text{ to} \text{ TRUE} \text{ xxxxxx} 0 \\ 23 \text{ xVXX} \text{ to agreement} \text{ to} \text{ to} \text{ TRUE} \text{ xxxxxx} 0 \\ 23 \text{ xVXX} \text{ to agreement} \text{ to} \text{ to} \text{ to} \text{ to} \text{ TRUE} \text{ xxxxxx} 0 \\ 23 \text{ closure of xxxxxx} \text{ closure} \text{ TRUE} \text{ xxxxxx} 0 \text{ dyadic} \\ 23 \text{ closure of xxxxxx} \text{ cyClosure} \text{ TRUE} \text{ xxxxxx} 0 \text{ dyadic} \\ 23 \text{ shared incoming xxxxx} \text{ dyadic} \\ 23 \text{ shared incoming xxxxx} \text{ dyadic} \\ 24 \text{ closure of xxxxxx} \text{ dyadic} \\ 25 \text{ to} \text{ to} \text{ to} \text{ to} \text{ dyadic} \\ 25 \text{ to} \text{ to} \text{ to} \text{ to} \text{ to} \text{ to} \q			-					•
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23 XWX closure of xxxxxx	231	~						ayaaıc
closure of xxxxxx 0 dyadic cyClosure of xxxxxx 0 dyadic cyClosure TRUE xxxxxx 0 dyadic	232	~						
cyClosure of xxxxxx 0 dyadic shared incoming xxxxxx 0 dyadic shared incoming xxxxxx 0 dyadic sonSymmetricSymmetricObjective crprod TRUE xxxxxx 0 dyadic TRUE xxxxxx 0 dyadic	233							1 1.
36 shared incoming xxxxxx sharedIn TRUE xxxxxx 0 dyadic conSymmetricSymmetricObjective crprod TRUE xxxxxx 0 dyadic	234							-
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ı v								
$12 \text{ degree}^{(1/\#)} \text{ xxxxxx popularity}$ in PopIntn TRUE xxxxxx 2 dyadic	211		-					*
	212	$degree^{(1/\#)}$ xxxxxx popularity	inPopIntn	TRUE	XXXXXX		2	dyadic

rom	effectName	shortName	endow?	intor1	inter2	narm	interaction Type
row 213	indegree $(1/\#)$ xxxxxx activity	inActIntn	TRUE	inter1	mterz	parm 2	interactionType
$\frac{213}{214}$		outPopIntn	TRUE	XXXXXX		2	ego dvodio
	outdegree (1/#) xxxxxx popularity	inActIntn	TRUE	XXXXXX			dyadic
215	degree (1/#) xxxxxx activity			XXXXXX		2	ego dvodio
216	both degrees (1/#) xxxxxx	both	TRUE	XXXXXX		2	dyadic
217	from xxxxxx agreement	from	TRUE	XXXXXX		0	dyadic
218	xxxxxx to agreement	to	TRUE	XXXXXX		0	
219	XWX closure of xxxxxx	cl.XWX	TRUE	XXXXXX		0	1 1.
220	closure of xxxxxx	closure	TRUE	XXXXXX		0	dyadic
	symmetricBipartiteObjective	- D - I -	T DIID				1 1:
243	outdegree (1/#) xxxxxx popularity	outPopIntn	TRUE	XXXXXX		2	dyadic
244	outdegree $(1/\#)$ xxxxxx activity	outActIntn	TRUE	XXXXXX		2	dyadic
245	from xxxxxx agreement	from	TRUE	XXXXXX		0	dyadic
	rNetNetObjective						
249	from xxxxxx agr. x same yyyyyy	covNetNet	TRUE	XXXXXX	уууууу	0	dyadic
250	xxxxxx closure jumping yyyyyy	jumpWWClosure	TRUE	XXXXXX	уууууу	0	dyadic
251	mixed xxxxxx closure jumping yyyyyy	jumpWXClosure	TRUE	XXXXXX	уууууу	0	dyadic
252	mixed xxxxxx closure homog. yyyyyy	homWXClosure	TRUE	XXXXXX	уууууу	0	dyadic
253	yyyyyy alter at distance 2 on xxxxxx (#)	altDist2W	TRUE	XXXXXX	уууууу	1	
254	yyyyyy similarity at distance 2 on xxxxxx	$\sin Dist2W$	TRUE	XXXXXX	уууууу	0	
symr	metricObjective						
188	degree (density)	density	TRUE			0	ego
189	transitive triads	transTriads	TRUE			0	
190	transitive ties	transTies	TRUE			0	
191	betweenness	between	FALSE			0	
192	balance	balance	TRUE			0	
193	number of actor pairs at distance 2	nbrDist2	FALSE			0	
194	number pairs at doubly achieved distance 2	nbrDist2twice	FALSE			0	
195	GWESP(#)	gwesp	FALSE			69	
196	4-cycles	cycle4ND	TRUE			1	
197	degree of alter	inPop	TRUE			0	
198	sqrt degree of alter	inPopSqrt	TRUE			0	
199	$degree^{(1.5)}$	outActSqrt	FALSE			0	
200	outdegree-trunc(#)	outTrunc	FALSE			1	
201	outdegree-trunc(#)	outTrunc2	FALSE			5	
202	1/(degree + #)	outInv	FALSE			1	

row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
203	1/(degree+#)(degree+1+#)	outSqInv	FALSE			1	0.1
204	network-isolate	isolateNet	FALSE			0	ego
205	degree $(1/\#)$ assortativity	outOutAss	TRUE			2	
dyad	Objective						
80	XXXXXX	X	TRUE	XXXXXX		0	dyadic
81	xxxxxx x reciprocity	XRecip	TRUE	XXXXXX		0	dyadic
82	WW=>X closure of xxxxxx	WWX	TRUE	XXXXXX		0	dyadic
83	WW=>X cyclic closure of xxxxxx	cyWWX	TRUE	XXXXXX		0	dyadic
84	WW=>X shared incoming xxxxxx	InWWX	TRUE	XXXXXX		0	dyadic
85	WW=>X shared outgoing xxxxxx	OutWWX	TRUE	XXXXXX		0	dyadic
86	WX=>X closure of xxxxxx	WXX	TRUE	XXXXXX		0	dyadic
87	XW=>X closure of xxxxxx	XWX	TRUE	XXXXXX		0	
cova	rSymmetricObjective						
95	XXXXXX	altX	TRUE	XXXXXX		0	dyadic
96	xxxxxx squared	altSqX	TRUE	XXXXXX		0	dyadic
97	xxxxxx similarity	sim X	TRUE	XXXXXX		0	dyadic
98	same xxxxxx	sameX	TRUE	XXXXXX		0	dyadic
99	transitive triads same xxxxxx	same X Trans Trip	TRUE	XXXXXX		0	
100	transitive triplets homog. xxxxxx	homXTransTrip	TRUE	XXXXXX		0	
101	transitive triads jumping xxxxxx	jump X Trans Trip	TRUE	XXXXXX		0	
102	xxxxxx ego x xxxxxx alter	$\operatorname{egoXaltX}$	TRUE	XXXXXX		0	dyadic
103	xxxxxx of indirect ties	IndTies	FALSE	XXXXXX		0	dyadic
104	xxxxxx alter at distance 2 (#)	altDist2	TRUE	XXXXXX		1	dyadic
105	xxxxxx similarity at distance 2	simDist2	TRUE	XXXXXX		0	dyadic
unsp	ecifiedNetInteraction						
209	unspecified interaction effect	unspInt	TRUE			0	
bipa	rtiteObjective						
132	outdegree (density)	density	TRUE			0	dyadic
133	4-cycles	cycle4	TRUE			1	
134	indegree - popularity	inPop	TRUE			0	
135	indegree - popularity (sqrt)	inPopSqrt	TRUE			0	
136	outdegree - activity	outAct	FALSE			0	
137	outdegree - activity (sqrt)	outActSqrt	FALSE			0	
138	outdegree-trunc(#)	outTrunc	FALSE			1	
139	outdegree-trunc(#)	outTrunc2	FALSE			5	

row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
140	1/(outdegree + #)	outInv	FALSE			1	<i>J</i> 1
141	1/(outdegree+#)(outdegree+1+#)	${ m outSqInv}$	FALSE			1	
142	anti in-isolates	antiInIso	TRUE			0	ego
143	anti in-near-isolates	antiInIso2	TRUE			0	ego
144	1/(outdegree + #)	outInv	FALSE			1	
145	1/(outdegree+#)(outdegree+1+#)	${ m outSqInv}$	FALSE			1	
146	out-in degree $(1/2)$ assortativity	outInAss	TRUE			2	
dyad	Objective						
80	XXXXXX	X	TRUE	XXXXXX		0	dyadic
81	xxxxxx x reciprocity	XRecip	TRUE	XXXXXX		0	dyadic
82	WW=>X closure of xxxxxx	WWX	TRUE	XXXXXX		0	dyadic
83	WW=>X cyclic closure of xxxxxx	cyWWX	TRUE	XXXXXX		0	dyadic
84	WW=>X shared incoming xxxxxx	InWWX	TRUE	XXXXXX		0	dyadic
85	WW=>X shared outgoing xxxxxx	OutWWX	TRUE	XXXXXX		0	dyadic
86	WX=>X closure of xxxxxx	WXX	TRUE	XXXXXX		0	dyadic
87	XW=>X closure of xxxxxx	XWX	TRUE	XXXXXX		0	
cova	rBipartiteObjective						
106	xxxxxx alter	altX	TRUE	XXXXXX		0	dyadic
107	xxxxxx squared alter	altSqX	TRUE	XXXXXX		0	dyadic
108	xxxxxx ego	egoX	TRUE	XXXXXX		0	ego
109	xxxxxx alter at distance 2	altDist2	TRUE	XXXXXX		1	dyadic
110	xxxxxx similarity at distance 2	simDist2	TRUE	XXXXXX		0	dyadic
unsp	ecifiedNetInteraction						
209	unspecified interaction effect	unspInt	TRUE			0	
bipa	rtiteNonSymmetricObjective						
237	outdegree $(1/\#)$ xxxxxx activity	outActIntn	TRUE	XXXXXX		2	dyadic
238	xxxxxx to agreement	to	TRUE	XXXXXX		0	
239	XWX closure of xxxxxx	cl.XWX	TRUE	XXXXXX		0	
bipa	rtiteSymmetricObjective						
240	degree $(1/\#)$ xxxxxx activity	outActIntn	TRUE	XXXXXX		2	dyadic
241	xxxxxx to agreement	to	TRUE	XXXXXX		0	
242	XWX closure of xxxxxx	cl.XWX	TRUE	XXXXXX		0	
bipa	rtiteBipartiteObjective						
246	XXXXXX	crprod	TRUE	XXXXXX		0	dyadic

247 indegree*(1/#) xxxxxx popularity	row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
248 outdegree* (1/#) xxxxxx activity						1110012	-	0 1
COVARNENDEJO COVACTOR COVAC			•					•
249 from xxxxxx agr. x same yyyyyy jumpWClosure TRUE xxxxxx yyyyyy 0 dyadic xxxxxx closure jumping yyyyyy jumpWClosure TRUE xxxxxx yyyyyy 0 dyadic yxxxxx closure jumping yyyyyy homWClosure TRUE xxxxxx yyyyyy 0 dyadic yxxxxx closure homog. yyyyyy homWClosure TRUE xxxxxx yyyyyy 0 dyadic yyyyyy aller at distance 2 on xxxxxx (#) altDist2W TRUE xxxxxx yyyyyy 1 dyadic yyyyyyy similarity at distance 2 on xxxxxx (#) altDist2W TRUE xxxxxx yyyyyy 0 dyadic yyyyyy similarity at distance 2 on xxxxxx (#) altDist2W TRUE xxxxxx yyyyyy 0 dyadic yyyyyy similarity at distance 2 on xxxxx (#) altDist2W TRUE xxxxxx yyyyyy 0 dyadic yyyyyyy similarity at distance 2 on xxxxxx (#) altDist2W TRUE xxxxxx yyyyyy 0 dyadic yyyyyyy 0 dyadic yyyyyyy similarity at distance 2 on xxxxxx (#) altDist2W TRUE xxxxxx yyyyyyy 0 dyadic yyyyyyy 0 dyadic yyyyyyy similarity at distance 2 on xxxxxx (#) altDist2W TRUE xxxxxx yyyyyy 0 dyadic yyyyyyy 0 dyadic yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy		9 (1.17)		11002				ay ware
250 xxxxxx closure jumping yyyyyy jumpWWClosure TRUE xxxxxx yyyyyy 0 dyadic 251 mixed xxxxxx closure jumping yyyyyy jumpWXClosure TRUE xxxxxx yyyyyy 0 dyadic 252 mixed xxxxxx closure bomog, yyyyyy homWXClosure TRUE xxxxxx yyyyyy 0 dyadic 253 yyyyyy alter at distance 2 on xxxxxx (#) altDist2W TRUE xxxxxx yyyyyy 1 254 yyyyyy similarity at distance 2 on xxxxxx (#) altDist2W TRUE xxxxxx yyyyyy 1 254 yyyyyy similarity at distance 2 on xxxxxx simDist2W TRUE xxxxxx yyyyyy 0 254 yyyyyyy similarity at distance 2 on xxxxxx simDist2W TRUE xxxxxx yyyyyy 1 254 yyyyyyy similarity at distance 2 on xxxxxx simDist2W TRUE xxxxxx yyyyyy 0 255 behavior xxxxxxx shape linear TRUE xxxxxx yyyyyy 0 260 behavior xxxxxxx shape linear TRUE xxxxxx yyyyyy 0 270 behavior xxxxxx shape linear TRUE xxxxxx yyyyyy 0 280 behavior xxxxxx shape linear TRUE xxxxxx yyyyyy 0 290 behavior xxxxxx shape linear TRUE xxxxxx yyyyyy 0 291 behavior xxxxxx shape linear TRUE xxxxxx yyyyyy 0 292 behavior xxxxxx shape linear TRUE yyyyyy 0 293 behavior xxxxxx shape linear TRUE yyyyyy 0 294 behavior xxxxxx xot. sim. x reciprocity xotSimRecip FALSE yyyyyy 0 295 behavior xxxxxx xot. sim. x rec. x pop. (alter) totSimRecip FALSE yyyyyy 0 290 behavior xxxxxx xot. sim. x rec. x pop. (alter) totSimRecip FALSE yyyyyy 0 201 behavior xxxxxx xot. sim. x rec. x pop. (alter) totSimRecip FALSE yyyyyy 0 202 behavior xxxxxx xot. sim. x rec. x pop. (alter) totSimRecip FALSE yyyyyy 0 203 behavior xxxxxx xot. sim. x rec. x pop. (alter) totSimRecip FALSE yyyyyy 0 204 behavior xxxxxx xot. sim. x rec. x pop. (alter) totSimRecip FALSE yyyyyy 0 205 behavior xxxxxx xot. sim. x popularity xot. xot. xot.		<u> </u>	covNetNet	TRUE	XXXXXX	VVVVVV	0	dyadic
Delawior XXXXXX closure jumping yyyyyy			jumpWWClosure				0	•
December	251			TRUE			0	•
253 yyyyyy alter at distance 2 on xxxxxx (#) altDist2W TRUE xxxxxx yyyyyy 0 254 yyyyyy similarity at distance 2 on xxxxxx simDist2W TRUE xxxxxx yyyyyy 0 46 behavior Objective 47 behavior xxxxxx linear shape linear TRUE 0 48 behavior xxxxxx quadratic shape quad TRUE 0 49 behavior xxxxxx quadratic shape avSim TRUE yyyyyy 0 1 behavior xxxxxx average similarity totSim TRUE yyyyyy 0 2 behavior xxxxxx total similarity totSim TRUE yyyyyy 0 3 behavior xxxxxx indegree indeg TRUE yyyyyy 0 4 behavior xxxxxx sudegree outdeg TRUE yyyyyy 0 5 behavior xxxxxx siolate isolate FALSE yyyyyy 0 6 behavior xxxxxx siolate isolate FALSE yyyyyy 0 7 behavior xxxxxx tot. sim. x reciprocity avSimRecip FALSE yyyyyy 0 8 behavior xxxxxx ave. sim. x reciprocity totSimRecip FALSE yyyyyy 0 8 behavior xxxxxx tot. sim. x popularity alter avSimPopAlt FALSE yyyyyy 0 10 behavior xxxxxx x ve. sim. x popularity alter totSimPopAlt FALSE yyyyyy 0 10 behavior xxxxxx x ve. sim. x rec. x pop. (alter) avSimRecPop FALSE yyyyyy 0 11 behavior xxxxxx ave. sim. x rec. x pop. (alter) totSimRecPop FALSE yyyyyy 0 12 behavior xxxxxx ave. sim. x rec. x pop. (alter) totSimRecPop FALSE yyyyyy 0 13 behavior xxxxxx average rec. alters avAlt TRUE yyyyyy 0 14 behavior xxxxxx average rec. alters avAlt TRUE yyyyyy 5 15 behavior xxxxxx average rec. alters avAlt TRUE yyyyyy 5 16 behavior xxxxxx average rec. alters simDenseTriads FALSE yyyyyy 5 17 behavior xxxxxx average rec. alters simDenseTriads FALSE yyyyyy 5 18 behavior xxxxxx x average rec. alters avAlt TRUE yyyyyy 5 19 behavior xxxxxx x average similarity avSim TRUE yyyyyy 0 behavior xxxxxx x average similarity avSim TRUE yyyyyy 0 behavior xxxxxx x average similarity avSim TRUE yyyyyy 0 behavior xxxxxx x average similarity avSim TRUE yyyyyy 0 behavior xxxxxx x average similarity avSim TRUE yyyyyy 0 behavior xxxxxx x average similarity avSim TRUE yyyyyy 0 behavior xxxxxx x average similarity avSim TRUE yyyyyy 0 behavior xxxxxx x average similarity avSim TRUE yyyyyy 0 behavior xxxxxx total s	252	· · · · · · · · · · · · · · · · ·	homWXClosure	TRUE	XXXXXX		0	dyadic
behavior Objective Comparison of the property of the proper	253	yyyyyy alter at distance 2 on xxxxxx (#)	altDist2W	TRUE	XXXXXX		1	v
behavior Objective 46 behavior xxxxxx linear shape linear TRUE 0 OK 47 behavior xxxxxx quadratic shape quad TRUE 0 behavior OneModeObjective 1 behavior xxxxxx average similarity avSim TRUE yyyyyy 0 2 behavior xxxxxx average similarity totSim TRUE yyyyyy 0 3 behavior xxxxxx indegree indeg TRUE yyyyyy 0 OK 4 behavior xxxxxx outdegree outdeg TRUE yyyyyy 0 OK 5 behavior xxxxxx isolate isolate FALSE yyyyyy 0 OK 6 behavior xxxxxx ave. sim. x reciprocity avSimRecip FALSE yyyyyy 0 7 behavior xxxxxx ave. sim. x reciprocity totSimRecip FALSE yyyyyy 0 8 behavior xxxxxx ave. sim. x popularity alter avSimPopAlt FALSE yyyyyy 0 9 behavior xxxxxx xv. sim. x popularity alter totSimPopAlt FALSE yyyyyy 0 10 behavior xxxxxx xv. sim. x rec. x pop. (alter) totSimRecPop FALSE yyyyyy 0 11 behavior xxxxxx xv. sim. x rec. x pop. (alter) avSimRecPop FALSE yyyyyy 0 12 behavior xxxxxx xv. sim. x rec. x pop. (alter) totSimRecPop FALSE yyyyyy 0 13 behavior xxxxxx xv. sim. x rec. x pop. (alter) avSimRecPop FALSE yyyyyy 0 14 behavior xxxxxx xv. sim. x rec. x pop. (alter) avSimRecPop FALSE yyyyyy 0 15 behavior xxxxxx x dense triads behDenseTriads FALSE yyyyyy 5 OK 16 behavior xxxxxx x dense triads behDenseTriads FALSE yyyyyy 5 OK 17 behavior xxxxxx x dense triads simDenseTriads FALSE yyyyyy 0 18 behavior xxxxxx x ave. sim. x popularity ego avSimPopEgo TRUE yyyyyy 0 behavior xxxxxx x ave. sim. x popularity avSim TRUE yyyyyy 0 behavior xxxxxx x ave. sim. x popularity avSim TRUE yyyyyy 0 behavior xxxxxx x ave. sim. x popularity avSim TRUE yyyyyy 0 behavior xxxxxx x ave. sim. x popularity avSim TRUE yyyyyy 0 behavior xxxxxx x average similarity totSim TRUE yyyyyy 0	254		$\sin Dist2W$	TRUE	XXXXXX		0	
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1 behavior xxxxxx average similarity avSim TRUE yyyyyy 0 2 behavior xxxxxx total similarity totSim TRUE yyyyyy 0 3 behavior xxxxxx indegree indeg TRUE yyyyyy 0 OK 4 behavior xxxxxx outdegree outdeg TRUE yyyyyy 0 OK 5 behavior xxxxxx isolate isolate FALSE yyyyyy 0 OK 6 behavior xxxxxx ave. sim. x reciprocity avSimRecip FALSE yyyyyy 0 7 behavior xxxxxx ave. sim. x reciprocity totSimRecip FALSE yyyyyy 0 8 behavior xxxxxx ve. sim. x popularity alter avSimPopAlt FALSE yyyyyy 0 9 behavior xxxxxx x ve. sim. x popularity alter totSimPopAlt FALSE yyyyyy 0 10 behavior xxxxxx x v. sim. x popularity alter popAlt FALSE yyyyyy 0 11 behavior xxxxxx ve. sim. x rec. x pop. (alter) avSimRecPop FALSE yyyyyy 0 12 behavior xxxxxx ve. sim. x rec. x pop. (alter) totSimRecPop FALSE yyyyyy 0 13 behavior xxxxxx verage alter avAlt TRUE yyyyyy 0 14 behavior xxxxxx verage rec. alters avRecAlt FALSE yyyyyy 0 15 behavior xxxxxx verage rec. alters avRecAlt FALSE yyyyyy 0 16 behavior xxxxxx x verage rec. alters avRecAlt FALSE yyyyyy 0 17 behavior xxxxxx x verage rec. alters avRecAlt FALSE yyyyyy 0 18 behavior xxxxxx x verage rec. alters avRecAlt FALSE yyyyyy 0 19 behavior xxxxxx x veriprocated degree recipDeg FALSE yyyyyy 0 10 OK 11 behavior xxxxxx x veriprocated degree recipDeg FALSE yyyyyy 0 11 behavior xxxxxx x veriprocated degree recipDeg FALSE yyyyyy 0 12 behavior xxxxxx x veriprocated degree recipDeg FALSE yyyyyy 0 13 behavior xxxxxx veriprocated degree recipDeg FALSE yyyyyy 0 14 behavior xxxxxx veriprocated degree recipDeg FALSE yyyyyy 0 15 oK 16 behavior xxxxxx veriprocated degree recipDeg FALSE yyyyyy 0 16 behavior xxxxxx veriprocated degree recipDeg FALSE yyyyyy 0 17 behavior xxxxxx veriprocated degree recipDeg FALSE yyyyyy 0 18 behavior xxxxxx veriprocated degree recipDeg FALSE yyyyyy 0 19 behavior xxxxxx veriprocated degree recipDeg FALSE yyyyyy 0 10 behavior xxxxxx veriprocated degree recipDeg FALSE yyyyyy 0 11 behavior xxxxxx veriprocated degree recipDeg FALSE yyyyyy 0 11 behavior xxxxxx veriprocated degree recipDeg FALSE yyyyyy	47	behavior xxxxxx quadratic shape	quad	TRUE			0	
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7 behavior xxxxxx tot. sim. x reciprocity totSimRecip FALSE yyyyyy 0 8 behavior xxxxxx ave. sim. x popularity alter avSimPopAlt FALSE yyyyyy 0 9 behavior xxxxxx tot. sim. x popularity alter totSimPopAlt FALSE yyyyyy 0 10 behavior xxxxxx x popularity alter popAlt FALSE yyyyyy 0 11 behavior xxxxxx ave. sim. x rec. x pop. (alter) avSimRecPop FALSE yyyyyy 0 12 behavior xxxxxx tot. sim. x rec. x pop. (alter) totSimRecPop FALSE yyyyyy 0 13 behavior xxxxxx average alter avAlt TRUE yyyyyy 0 14 behavior xxxxxx average rec. alters avRecAlt FALSE yyyyyy 0 15 behavior xxxxxx dense triads behDenseTriads FALSE yyyyyy 5 16 behavior xxxxxx similarity in dense triads simDenseTriads FALSE yyyyyy 5 17 behavior xxxxxx reciprocated degree recipDeg FALSE yyyyyy 0 18 behavior xxxxxx ave. sim. x popularity ego avSimPopEgo TRUE yyyyyy 0 19 behavior xxxxxx average similarity avSim TRUE yyyyyy 0 20 behavior xxxxxx total similarity totSim TRUE yyyyyy 0 21 TRUE yyyyyy 0 22 behavior xxxxxx total similarity totSim TRUE yyyyyy 0	5	behavior xxxxxx isolate	isolate	FALSE	уууууу		0	OK
8 behavior xxxxxx ave. sim. x popularity alter 9 behavior xxxxxx tot. sim. x popularity alter 10 behavior xxxxxx x popularity alter 11 behavior xxxxxx x popularity alter 12 behavior xxxxxx ave. sim. x rec. x pop. (alter) 13 behavior xxxxxx average alter 14 behavior xxxxxx average alter 15 behavior xxxxxx average alter 16 behavior xxxxxx average rec. alters 17 behavior xxxxxx dense triads 18 behavior xxxxxx similarity in dense triads 19 behavior xxxxxx average similarity 20 behavior xxxxxx average similarity 20 behavior xxxxxx average similarity 30 control of totSimRecPop average yyyyyyy 30 control of totSimRecPop average yyyyyyy 30 control of totSimRecPop average yyyyyyy 31 control of totSimRecPop average yyyyyyy 32 control of totSimRecPop average yyyyyyy 33 control of totSimPope yyyyyyy 34 control of totSimPope yyyyyyy 35 control of totSimPope yyyyyyy 36 control of totSimPope yyyyyy 37 control of totSimPope yyyyyyy 38 control of totSimPope yyyyyyy 39 control of totSimPope yyyyyyy 30 control of totSimPope yyyyyy 30 control of totSimPope yyyyyy 30 control of totSimPope yyyyyy 30 control of totSimPope yyyyy	6	behavior xxxxxx ave. sim. x reciprocity	avSimRecip	FALSE	уууууу		0	
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10 behavior xxxxxx x popularity alter popAlt FALSE yyyyyy 0 OK 11 behavior xxxxxx ave. sim. x rec. x pop. (alter) avSimRecPop FALSE yyyyyy 0 12 behavior xxxxxx tot. sim. x rec. x pop. (alter) totSimRecPop FALSE yyyyyy 0 13 behavior xxxxxx average alter avAlt TRUE yyyyyy 0 OK 14 behavior xxxxxx average rec. alters avRecAlt FALSE yyyyyy 0 OK 15 behavior xxxxxx dense triads behDenseTriads FALSE yyyyyy 5 OK 16 behavior xxxxxx similarity in dense triads simDenseTriads FALSE yyyyyy 5 OK 17 behavior xxxxxx reciprocated degree recipDeg FALSE yyyyyy 0 OK 18 behavior xxxxxx ave. sim. x popularity ego avSimPopEgo TRUE yyyyyy 0 behaviorSymmetricObjective avSim TRUE yyyyyy 0 behavior xxxxxx average similarity totSim TRUE yyyyyy 0	8	behavior xxxxxx ave. sim. x popularity alter	avSimPopAlt	FALSE	уууууу		0	
behavior xxxxxx ave. sim. x rec. x pop. (alter) 12 behavior xxxxxx tot. sim. x rec. x pop. (alter) 13 behavior xxxxxx average alter 14 behavior xxxxxx average rec. alters 15 behavior xxxxxx average rec. alters 16 behavior xxxxxx similarity in dense triads 17 behavior xxxxxx reciprocated degree 18 behavior xxxxxx average rec. sim. x popularity ego 19 behavior xxxxxx average similarity 10 ook 11 behavior xxxxxx average rec. alters 12 behavior xxxxxx average rec. alters 13 avRecAlt 14 behavior xxxxxx dense triads 15 behavior xxxxxx similarity in dense triads 16 behavior xxxxxx similarity in dense triads 17 behavior xxxxxx reciprocated degree 18 behavior xxxxxx ave. sim. x popularity ego 19 behavior xxxxxx average similarity 10 cook 20 behavior xxxxxx total similarity 21 avSim 22 behavior xxxxxx total similarity 23 behavior xxxxxx total similarity 24 cook 25 cook 26 cook 27 cook 28 cook 29 cook 20 behavior xxxxxx average similarity 20 behavior xxxxxx total similarity 20 cook 21 avSim 22 cook 23 cook 24 cook 25 cook 26 cook 27 cook 28 cook 29 cook 20 cook 20 cook 20 cook 21 cook 22 cook 23 cook 24 cook 25 cook 26 cook 27 cook 28 cook 29 cook 20 cook 20 cook 21 cook 22 cook 23 cook 24 cook 25 cook 26 cook 27 cook 28 cook 29 cook 20 cook 20 cook 20 cook 21 cook 22 cook 23 cook 24 cook 25 cook 26 cook 27 cook 28 cook 29 cook 20 cook 20 cook 20 cook 21 cook 22 cook 23 cook 24 cook 25 cook 26 cook 27 cook 27 cook 28 cook 29 cook 20 cook	9	behavior xxxxxx tot. sim. x popularity alter	totSimPopAlt	FALSE	уууууу		0	
12 behavior xxxxxx tot. sim. x rec. x pop. (alter) 13 behavior xxxxxx average alter 14 behavior xxxxxx average rec. alters 15 behavior xxxxxx dense triads 16 behavior xxxxxx similarity in dense triads 17 behavior xxxxxx reciprocated degree 18 behavior xxxxxx ave. sim. x popularity ego 19 behavior xxxxxx average similarity 10 behavior xxxxxx average similarity 11 avSim 12 totSimRecPop 13 totSimRecPop 14 totSimRecPop 15 FALSE 16 yyyyyyy 10 OK 11 behavior xxxxxx similarity in dense triads 11 behavior xxxxxx reciprocated degree 12 totSimPopEgo 13 totSimPopEgo 14 totSimPopEgo 15 FALSE 16 totSimPopEgo 17 totSimPopEgo 18	10		popAlt	FALSE	уууууу		0	OK
13 behavior xxxxxx average alter 14 behavior xxxxxx average rec. alters 25 avRecAlt 16 behavior xxxxxx dense triads 17 behavior xxxxxx similarity in dense triads 18 behavior xxxxxx reciprocated degree 19 behavior xxxxxx average similarity 20 behavior xxxxxx total similarity 21 avSim 22 TRUE yyyyyy 23 OK TRUE yyyyyy 24 OK TRUE yyyyyy 25 OK TRUE yyyyyy 26 OK TRUE yyyyyy COK TRUE yyyyyyy COK TRUE yyyyyy COK TRUE yyyyyy COK TRUE yyyyyyy COK TRUE yyyyyyy COK TRUE yyyyyyy COK TRUE yyyyyy COK TRUE yyyyyy COK TRUE yyyyyy COK TRUE yyyyyy COK TRUE yyyyyyy COK TRUE yyyyyyy COK TRUE yyyyyy COK TRUE yyyyyy COK TRUE yyyyyyy COK TRUE yyyyyy COK TRUE yyyyyy COK TRUE yyyyyy COK TRUE yyyyyyy COK TRUE yyyyyy TRUE yyyyyy TRUE yyyyy TRUE yyyy TRUE yyyy TRUE yyyyy TRUE yyyy TRUE yyyyy TRUE yyyy TRUE yyyy TRUE yyyy TRUE yyy	11	behavior xxxxxx ave. sim. x rec. x pop. (alter)	avSimRecPop	FALSE	уууууу		0	
14 behavior xxxxxx average rec. alters avRecAlt behavior xxxxxx dense triads behDenseTriads fALSE yyyyyy 5 OK 16 behavior xxxxxx similarity in dense triads simDenseTriads fALSE yyyyyy 5 OK 17 behavior xxxxxx reciprocated degree recipDeg fALSE yyyyyy 0 OK 18 behavior xxxxxx reciprocated degree recipDeg fALSE yyyyyy 0 OK 18 behavior xxxxxx ave. sim. x popularity ego avSimPopEgo TRUE yyyyyy 0 behavior xxxxxx average similarity avSim TRUE yyyyyy 0 TRUE yyyyyy 0 10 OK TRUE TRUE yyyyyy 0 11 OK TRUE yyyyyy 0 12 OK TRUE yyyyyy 0 TRUE yyyyyy 0 OK TRUE yyyyyy O OK OK TRUE yyyyyy O OK TRUE yyyyyy O OK OK TRUE yyyyyy O OK OK OK OK TRUE yyyyyyy O OK OK OK TRUE yyyyyy O OK OK OK OK OK TRUE YYYYYY O OK OK OK OK OK TRUE YYYYYY O OK OK OK OK OK OK OK	12	behavior xxxxxx tot. sim. x rec. x pop. (alter)	totSimRecPop	FALSE	уууууу		0	
behavior xxxxxx dense triads behDenseTriads FALSE yyyyyy 5 OK behavior xxxxxx similarity in dense triads simDenseTriads FALSE yyyyyy 5 OK behavior xxxxxx reciprocated degree recipDeg FALSE yyyyyy 0 OK behavior xxxxxx ave. sim. x popularity ego avSimPopEgo TRUE yyyyyy 0 behaviorSymmetricObjective 19 behavior xxxxxx average similarity avSim TRUE yyyyyy 0 20 behavior xxxxxx total similarity totSim TRUE yyyyyy 0	13	behavior xxxxxx average alter	avAlt	TRUE	уууууу		0	OK
16 behavior xxxxxx similarity in dense triads simDenseTriads FALSE yyyyyy 5 OK 17 behavior xxxxxx reciprocated degree recipDeg FALSE yyyyyy 0 OK 18 behavior xxxxxx ave. sim. x popularity ego avSimPopEgo TRUE yyyyyy 0 behaviorSymmetricObjective avSim TRUE yyyyyy 0 20 behavior xxxxxx average similarity avSim TRUE yyyyyy 0 totSim TRUE yyyyyy 0	14	behavior xxxxxx average rec. alters	avRecAlt	FALSE	уууууу		0	OK
17 behavior xxxxxx reciprocated degree recipDeg FALSE yyyyyy 0 OK 18 behavior xxxxxx ave. sim. x popularity ego avSimPopEgo TRUE yyyyyy 0 behaviorSymmetricObjective 19 behavior xxxxxx average similarity avSim TRUE yyyyyy 0 20 behavior xxxxxx total similarity totSim TRUE yyyyyy 0	15	behavior xxxxxx dense triads	behDenseTriads	FALSE	уууууу		5	
18 behavior xxxxxx ave. sim. x popularity ego avSimPopEgo TRUE yyyyyy 0 behaviorSymmetricObjective 19 behavior xxxxxx average similarity avSim TRUE yyyyyy 0 20 behavior xxxxxx total similarity totSim TRUE yyyyyy 0	16	behavior xxxxxx similarity in dense triads	simDenseTriads	FALSE	уууууу		5	
behaviorSymmetricObjective 19 behavior xxxxxx average similarity avSim TRUE yyyyyy 0 20 behavior xxxxxx total similarity totSim TRUE yyyyyy 0	17	behavior xxxxxx reciprocated degree	$\operatorname{recipDeg}$	FALSE	уууууу		0	OK
19 behavior xxxxxx average similarity avSim TRUE yyyyyy 0 20 behavior xxxxxx total similarity totSim TRUE yyyyyy 0	18	behavior xxxxxx ave. sim. x popularity ego	avSimPopEgo	TRUE	уууууу		0	
20 behavior xxxxxx total similarity totSim TRUE yyyyyy 0	beha	v v						
	19	· · · · · · · · · · · · · · · · · · ·			уууууу		0	
21 behavior xxxxxx degree outdeg TRUE yyyyyy 0 OK	20	behavior xxxxxx total similarity	totSim	TRUE	уууууу		0	
	21	behavior xxxxxx degree	outdeg	TRUE	уууууу		0	OK

row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
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	
beha	viorBipartiteObjective						
35	behavior xxxxxx average similarity	avSim	TRUE	уууууу		0	
36	behavior xxxxxx total similarity	totSim	TRUE	уууууу		0	
37	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
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	rBehaviorObjective						
89	behavior xxxxxx: effect from yyyyyy	effFrom	TRUE	уууууу		0	OK
covar	rBehaviorNetObjective						
90	behavior xxxxxx: tot. sim. (zzzzzz) x alter's yyyyyy	totSimAltX	TRUE	уууууу	ZZZZZZ	0	OK
91	behavior xxxxxx: av. sim. (zzzzzz) x alter's yyyyyy	avSimAltX	TRUE	уууууу	ZZZZZZ	0	OK
92	behavior xxxxxx: av. alters (zzzzzz) x alter's yyyyyy	avAltAltX	TRUE	уууууу	ZZZZZZ	0	OK
93	behavior xxxxxx: alter's (zzzzzz) yyyyyy average	AltsAvAlt	TRUE	уууууу	ZZZZZZ	0	OK
0.4	behavior represent alter's (agaggs) represent	AltsAvAlt	TRUE	3/3/3/3/3/3/	ZZZZZZ	0	OK
94	behavior xxxxxx: alter's (zzzzzz) yyyyyy average	AIUSAVAIU		уууууу		U	OIL

row	effectName	shortName	endow?	inter1	inter2	parm	interactionType
96	xxxxxx squared	altSqX	TRUE	XXXXXX		0	dyadic
unsp	ecifiedBehaviorInteraction						
210	behavior xxxxxx: unspecified interaction	behUnspInt	TRUE			0	