

В.Н. Кочетков «Расчет величин импульса системы тел по формулам, приведенным в статье «Специальная теор
 V.N. Cochetkov «Calculation of values of momentum of system of bodies on the formulas given in the article «Specia

Тела 1 и 2 (bodies 1 and 2)

	V	ω	g			π	t1=t2				
	0.9	0.8	2.294157339			3.141592654	1.963495408				
	t1'	t1'	t1'	t1'	t1'	t1'	t1'	t1'	t1'	t1'	t1'
	-2	-1	0	1	2	3	4	4.5045674	5	6	7
	t1	t1	t1	t1	t1	t1	t1	t1	t1	t1	t1
	0.027994	0.4149702	0.744879	1.041272	1.3168649	1.579689	1.835533	1.9634954	2.089139	2.344941	2.607678
t1'	-2.000001206	-1.000000064	2.93962E-06	1.000001807	1.999999927	3.000000083	4.000003037	4.504567368	5.00000152	5.99999958	7.00000262
t1-Vcos(ω t1)	-0.871780314	-0.435889922	1.28135E-06	0.435890682	0.871779757	1.307670045	1.743560901	1.963495394	2.179450134	2.61533918	3.0512304
	t2	t2	t2	t2	t2	t2	t2	t2	t2	t2	t2
	-1.316865	-1.041272	-0.744877	-0.414969	-0.027994	0.470739	1.2686283	1.9634954	2.648073	3.450826	3.951063
	-1.316865395	-1.04127124	-0.744877246	-0.414969722	-0.027994557	0.470738776	1.26862853	1.963495388	2.64807353	3.45082591	3.95106352
Px'	-9.609609583	-10.14285636	-10.31609661	-10.14285358	-9.609609462	-8.673377287	-7.327035644	-6.882472016	-7.314411177	-8.66278175	-9.6029718
Py'	0.673613679	0.363672302	-1.19735E-06	-0.36367272	-0.673613587	-0.83690713	-0.567348551	0	0.560462611	0.83716822	0.67597143
$\pm P\Sigma'$	9.633190112	10.149374	10.31609661	10.14937124	9.633189985	8.713660948	7.348968343	6.882472016	7.335852316	8.70313956	9.62673386
tg α'	-0.070097924	-0.035855019	1.16066E-07	0.035855069	0.070097915	0.096491494	0.077432208	0	-0.076624433	-0.09663965	-0.0703919
α'	-0.069983447	-0.035839665	1.16066E-07	0.035839716	0.069983438	0.096193691	0.077278008	0	-0.076474998	-0.09634048	-0.07027598
Градусы α'	-4.00975616	-2.053461572	6.65008E-06	2.053464487	4.00975566	5.511492496	4.427703715	0	-4.381694595	-5.51990296	-4.02651704

Нить 3 , точки i=1, j=1 (the string 3 , point i=1, j=1)

V	ω	g			mi	Ri	Rj
0.9	0.8	2.294157339			0.005	0.05	0.05
t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
-2	-1	0	1	2	3	4	7
						4.5045674	5

	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
	-0.836485	-0.393097	0.0449746	0.477644	0.90548	1.33	1.751166	1.9634954	2.171975	2.593604	3.017622
t1i'	-1.999999692	-1.000000505	8.54332E-06	0.999999074	1.999998536	3.000000888	3.999998325	4.504567381	4.999990931	6	7.0000015
t1i-Vcos($\omega t1i$)	-0.871779654	-0.435890114	3.72395E-06	0.435889491	0.87177915	1.30767007	1.743558847	1.9634954	2.179445518	2.61533936	3.05122991
	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
	-0.9054805	-0.4776446	-0.044967	0.393096	0.836484	1.284408	1.735393	1.9634954	2.187465	2.638475	3.086433
	-0.905480492	-0.477644616	-0.044967162	0.393096365	0.836484474	1.284407865	1.735392659	1.963495399	2.187465351	2.63847485	3.08643342
Pxij'	-0.034444727	-0.034460969	-0.034467372	-0.034460969	-0.034444727	-0.034426199	-0.034414051	-0.03441236	-0.034413991	-0.03442605	-0.03444455
Pyij'	1.1806E-05	7.69343E-06	-7.28969E-11	-7.69345E-06	-1.18061E-05	-1.04094E-05	-4.141E-06	0	4.069E-06	1.0371E-05	1.1819E-05
$\pm P\Sigma ij'$	0.034444729	0.03446097	0.034467372	0.03446097	0.034444729	0.034426201	0.034414052	0.03441236	0.034413991	0.03442605	0.03444456
tg $\alpha ij'$	-0.000342753	-0.000223251	2.11495E-09	0.000223251	0.000342756	0.00030237	0.000120329	0	-0.000118237	-0.00030126	-0.00034314
$\alpha ij'$	-0.000342753	-0.000223251	2.11495E-09	0.000223251	0.000342756	0.00030237	0.000120329	0	-0.000118237	-0.00030126	-0.00034314

Нить 3 , точки i=2, j=2 (the string 3 , point i=2, j=2)

	V	ω	g				mi	Ri		Rj	
	0.9	0.8	2.294157339				0.005	0.15		0.15	
	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	
	-2	-1	0	1	2	3	4	4.5045674	5	6	7
	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	
	-0.761037	-0.304886	0.134222	0.557675	0.968263	1.369439	1.764916	1.9634954	2.158476	2.553918	2.955026
t1i'	-2.000000306	-1.000000684	-1.09189E-06	0.999997689	1.999999029	2.999998165	3.999999869	4.50456738	4.999998032	5.99999892	7.00000073
t1i-Vcos($\omega t1i$)	-0.871779922	-0.435890192	-4.75942E-07	0.435888887	0.871779365	1.307668883	1.74355952	1.963495399	2.179448614	2.6153389	3.05122958
	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	
	-0.968263	-0.557676	-0.134223	0.304884	0.761036	1.233208	1.717123	1.9634954	2.205412	2.689404	3.161709
	-0.968263556	-0.557676259	-0.13422294	0.304884642	0.761036382	1.233208661	1.717123243	1.963495398	2.205412813	2.68940419	3.16170968
Pxij'	-0.034704934	-0.034848226	-0.034904098	-0.034848228	-0.034704935	-0.034538639	-0.034427889	-0.03441236	-0.034427337	-0.03453726	-0.0347034
Pyij'	0.000105624	6.82824E-05	8.57374E-11	-6.82825E-05	-0.000105625	-9.40008E-05	-3.76281E-05	0	3.69747E-05	9.3662E-05	0.00010575

	-2	-1	0	1	2	3	4	4.5045674	5	6	7
	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
t1i'	-0.59138	-0.122398	0.3056315	0.702449	1.076929	1.436559	1.787712	1.9634954	2.136093	2.487192	2.84672
t1i-Vcos(ωt1i)	-2.000000128	-0.999998164	1.08911E-06	1.000004768	2.000000107	2.999998541	4.00000198	4.504567377	5.000000104	5.99999356	7.00000027
	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
Pxij'	-1.076929	-0.702446	-0.30563	0.122401	0.59138	1.108651	1.670367	1.9634954	2.251349	2.813384	3.331111
	-1.076929009	-0.702446524	-0.305630642	0.122400952	0.591379991	1.108651481	1.670367244	1.963495396	2.251349192	2.81338453	3.33111072
Pyij'	0.000557412	0.000347657	-6.77812E-10	-0.000347659	-0.000557412	-0.000519464	-0.000215123	0	0.000211431	0.0005178	0.00055831
±PΣij'	0.036039695	0.036743009	0.037004039	0.036743007	0.036039695	0.03515131	0.0345067	0.03441236	0.03450337	0.03514357	0.03603188
tgαij'	-0.015468475	-0.009462272	1.83172E-08	0.009462339	0.015468475	0.01477955	0.006234366	0	-0.006127946	-0.01473553	-0.01549677
αij'	-0.015467242	-0.009461989	1.83172E-08	0.009462056	0.015467242	0.014778474	0.006234286	0	-0.006127869	-0.01473447	-0.01549553

Нить 3 , точки i=5, j=5 (the string 3 , point i=5, j=5)

	V	ω	g	mi	Ri	Rj
	0.9	0.8	2.294157339	0.005	0.45	0.45
	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
	-2	-1	0	1	2	3
	t1i	t1i	t1i	t1i	t1i	t1i
t1i'	-0.49857	-0.031014	0.385858	0.767008	1.123828	1.464949
t1i-Vcos(ωt1i)	-2.000000218	-0.999998747	2.16425E-06	0.999998947	1.999997325	2.999997204
	t2j	t2j	t2j	t2j	t2j	t2j
Pxij'	-1.123829	-0.767008	-0.385856	0.031014	0.498568	1.0333547
	-1.123829008	-0.767007913	-0.38585631	0.031014087	0.498568487	1.033354187
Pyij'	0.000897487	0.000546347	-1.45827E-09	-0.000546347	-0.000897487	-0.000866917

$\pm P\Sigma_{ij}'$	0.037137515	0.038208585	0.038594241	0.038208585	0.037137521	0.035701815	0.034582945	0.03441236	0.034576954	0.03568882	0.03712532
$tg\alpha_{ij}'$	-0.024173651	-0.014300514	3.77847E-08	0.014300514	0.024173646	0.024289305	0.010707002	0	-0.010526747	-0.02422885	-0.02422755
α_{ij}'	-0.024168944	-0.01429954	3.77847E-08	0.01429954	0.024168939	0.02428453	0.010706593	0	-0.010526359	-0.02422411	-0.02422281

Нить 3 , точки i=6, j=6 (the string 3 , point i=6, j=6)

	V	ω	g				m_i	R_i				R_j
	0.9	0.8	2.294157339				0.005	0.55				0.55
	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
	-2	-1	0	1	2	3	4	4.5045674	5	6	7	
	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
	-0.4021805	0.0585668	0.461626	0.826559	1.166452	1.490528	1.80583	1.9634954	2.118302	2.433552	2.75752	
t1i'	-1.99999787	-1.00000188	-2.47724E-06	1.000004064	2.000000908	3.000000952	4.000000782	4.504567374	4.99999851	5.99999746	7.00000263	
t1i-Vcos($\omega t1i$)	-0.871779696	-0.435889976	-1.0798E-06	0.435891666	0.871780184	1.307670098	1.743559918	1.963495397	2.179448822	2.61533826	3.0512304	
	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
	-1.166452	-0.826558	-0.461628	-0.0585651	0.402181	0.948455	1.602636	1.9634954	2.317932	2.973057	3.520256	
	-1.166451511	-0.826557554	-0.461627874	-0.058565142	0.402181051	0.948455051	1.602636235	1.963495393	2.317932472	2.97305711	3.52025618	
Pxij'	-0.03851135	-0.039972106	-0.040485157	-0.039972099	-0.038511347	-0.036441662	-0.034693633	-0.03441236	-0.034683833	-0.03642218	-0.03849437	
Pyij'	0.001295758	0.000768809	2.11766E-09	-0.000768811	-0.001295758	-0.001306349	-0.000582619	0	0.000572865	0.0013032	0.00129863	
$\pm P\Sigma_{ij}'$	0.038533143	0.039979498	0.040485157	0.039979492	0.03853314	0.036465069	0.034698525	0.03441236	0.034688564	0.03644548	0.03851627	
$tg\alpha_{ij}'$	-0.033646142	-0.019233635	-5.2307E-08	0.019233689	0.033646133	0.035847685	0.016793262	0	-0.016516784	-0.03578052	-0.03373565	
α_{ij}'	-0.033633454	-0.019231264	-5.2307E-08	0.019231317	0.033633445	0.035832341	0.016791683	0	-0.016515283	-0.03576526	-0.03372286	

Нить 3 , точки i=7, j=7 (the string 3 , point i=7, j=7)

V	ω	g				m_i	R_i				R_j
0.9	0.8	2.294157339				0.005	0.65				0.65

	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
	-2	-1	0	1	2	3	4	4.5045674	5	6	7
	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
	-0.303995	0.145169	0.532682	0.881391	1.205267	1.513673	1.813561	1.9634954	2.110712	2.41055	2.718849
t1i'	-2.000001382	-1.000001096	2.33632E-06	1.000002554	2.000000604	3.000001555	4.000000591	4.504567373	5.000001674	6.00000092	7.00000095
t1i-Vcos(ωt1i)	-0.871780391	-0.435890372	1.01838E-06	0.435891008	0.871780052	1.307670361	1.743559835	1.963495396	2.179450201	2.61533977	3.05122967
	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
	-1.205267	-0.88139	-0.53268	-0.145168	0.303995	0.853957	1.55638	1.9634954	2.363453	3.067377	3.618505
	-1.205267339	-0.881390668	-0.53268035	-0.145168419	0.303994661	0.853957044	1.556380431	1.963495392	2.363452799	3.06737728	3.6185053
Pxij'	-0.040186246	-0.042007485	-0.042631141	-0.042007483	-0.040186246	-0.037441444	-0.034863553	-0.03441236	-0.034848056	-0.03741434	-0.04016461
Pyij'	0.001735544	0.001004141	-2.86599E-09	-0.001004144	-0.001735544	-0.001834894	-0.000867987	0	0.00085381	0.00183146	0.00173996
±PΣij'	0.040223706	0.042019485	0.042631141	0.042019483	0.040223706	0.037486379	0.034874356	0.03441236	0.034858514	0.03745914	0.04020228
tgαij'	-0.043187513	-0.023903866	6.72275E-08	0.02390393	0.043187513	0.049007028	0.024896687	0	-0.024500946	-0.04895087	-0.04332079
αij'	-0.043160692	-0.023899315	6.72275E-08	0.023899379	0.043160692	0.048967851	0.024891545	0	-0.024496045	-0.04891183	-0.04329372

Нить 3 , точки i=8, j=8 (the string 3 , point i=8, j=8)

	V	ω	g	mi	Ri	Rj
	0.9	0.8	2.294157339	0.005	0.75	0.75
	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
	-2	-1	0	1	2	3
	t1i	t1i	t1i	t1i	t1i	t1i
	-0.205918	0.2279201	0.598977	0.931854	1.2407	1.534704
t1i'	-2.000000057	-1.000000879	1.21959E-06	1.000002195	2.000000965	3.000003234
t1i-Vcos(ωt1i)	-0.871779814	-0.435890277	5.31606E-07	0.435890851	0.871780209	1.307671092
	t2j	t2j	t2j	t2j	t2j	t2j
	-1.2407	-0.931854	-0.598976	-0.22792	0.205918	0.750819
	-1.240699604	-0.931853426	-0.598976186	-0.227919536	0.205918396	0.750819391
Pxij'	-0.042137219	-0.044273272	-0.044989636	-0.044273271	-0.042137219	-0.03873175

P_{yij}'	0.002199571	0.001243313	-1.84421E-09	-0.001243313	-0.002199571	-0.002443102	-0.001249077	0	0.001229453	0.00244003	0.00220586
$\pm P_{\Sigma ij}'$	0.042194589	0.044290726	0.044989636	0.044290725	0.042194589	0.038808726	0.035146149	0.03441236	0.035121595	0.03877336	0.0421691
$tg\alpha_{ij}'$	-0.052200183	-0.028082695	4.09919E-08	0.028082698	0.052200183	0.063077505	0.035561975	0	-0.03502708	-0.06305555	-0.05238157
α_{ij}'	-0.052152848	-0.028075317	4.09919E-08	0.028075319	0.052152848	0.062994047	0.035546995	0	-0.035012766	-0.06297218	-0.05233374

Нить 3 , точки i=9, j=9 (the string 3 , point i=9, j=9)

	V	ω	g				m_i	R_i				R_j
	0.9	0.8	2.294157339				0.005	0.85				0.85
	t_{1i}'	t_{1i}'	t_{1i}'	t_{1i}'	t_{1i}'	t_{1i}'	t_{1i}'	t_{1i}'	t_{1i}'	t_{1i}'	t_{1i}'	t_{1i}'
	-2	-1	0	1	2	3	4	4.5045674	5	6	7	
	t_{1i}	t_{1i}	t_{1i}	t_{1i}	t_{1i}	t_{1i}	t_{1i}	t_{1i}	t_{1i}	t_{1i}	t_{1i}	t_{1i}
	-0.109726	0.306263	0.660627	0.978312	1.27313	1.553888	1.826956	1.9634954	2.09756	2.370583	2.651244	
t_{1i}'	-2.000001747	-1.000000526	1.95349E-06	1.000001524	2.000001194	3.000001856	4.000000863	4.50456737	5.000001953	6.00000131	7.00000038	
$t_{1i}-V\cos(\omega t_{1i})$	-0.87178055	-0.435890124	8.51507E-07	0.435890559	0.871780309	1.307670492	1.743559954	1.963495395	2.179450323	2.61533994	3.05122942	
	t_{2j}	t_{2j}	t_{2j}	t_{2j}	t_{2j}	t_{2j}	t_{2j}	t_{2j}	t_{2j}	t_{2j}	t_{2j}	t_{2j}
	-1.27313	-0.978312	-0.660626	-0.306263	0.109726	0.641099	1.422973	1.9634954	2.495039	3.280193	3.813054	
	-1.273130241	-0.978311565	-0.660625606	-0.306262565	0.109725759	0.641098963	1.422973397	1.96349539	2.495039406	3.28019318	3.81305373	
P_{xij}'	-0.04434006	-0.046733024	-0.047522816	-0.046733024	-0.04434006	-0.040341784	-0.035531485	-0.03441236	-0.035495437	-0.04029862	-0.0443107	
P_{yij}'	0.002671888	0.001479494	-2.28589E-09	-0.001479494	-0.002671888	-0.003113733	-0.001756967	0	0.001731102	0.00311182	0.00268029	
$\pm P_{\Sigma ij}'$	0.04442049	0.046756438	0.047522816	0.046756438	0.04442049	0.040461771	0.035574898	0.03441236	0.035537625	0.04041858	0.04439169	
$tg\alpha_{ij}'$	-0.060259004	-0.031658425	4.81008E-08	0.031658425	0.060259004	0.077183832	0.049448165	0	-0.048769703	-0.07721914	-0.06048851	
α_{ij}'	-0.060186226	-0.031647855	4.81008E-08	0.031647855	0.060186226	0.077031108	0.049407922	0	-0.048731092	-0.0770662	-0.0604149	

Нить 3 , точки i=10, j=10 (the string 3 , point i=10, j=10)

V	ω	g				m_i	R_i				R_j
0.9	0.8	2.294157339				0.005	0.95				0.95

	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
	-2	-1	0	1	2	3	4	4.5045674	5	6	7
	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
	-0.016858	0.3799216	0.717846	1.021125	1.302892	1.571453	1.832796	1.9634954	2.091826	2.353127	2.621597
t1i'	-2.00000105	-1.0000001	1.13897E-06	1.000002013	2.000002281	3.000002304	4.00000191	4.504567369	5.000001233	6.00000206	7.00000071
t1i-Vcos(ωt1i)	-0.871780246	-0.435889938	4.96466E-07	0.435890772	0.871780783	1.307670687	1.74356041	1.963495394	2.179450009	2.61534026	3.05122957
	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
	-1.302892	-1.021124	-0.717845	-0.379921	0.0168585	0.527748	1.326425	1.9634954	2.590653	3.393702	3.9061103
	-1.302891463	-1.021124665	-0.717845379	-0.379920889	0.016858541	0.527747969	1.326425336	1.963495388	2.590653363	3.39370234	3.90611029
Pxij'	-0.04676384	-0.049353303	-0.050198183	-0.049353304	-0.046763834	-0.042279474	-0.036179551	-0.03441236	-0.036126583	-0.0422294	-0.04673173
Pyij'	0.003139341	0.001707976	-2.75235E-09	-0.001707981	-0.003139341	-0.003823262	-0.002428885	0	0.002396884	0.00382332	0.00314999
±PΣij'	0.046869096	0.049382848	0.050198183	0.04938285	0.04686909	0.042451988	0.03626099	0.03441236	0.036206008	0.04240213	0.04683777
tgαij'	-0.067131805	-0.034607134	5.48297E-08	0.034607226	0.067131813	0.090428331	0.067134196	0	-0.066346824	-0.09053703	-0.06740573
αij'	-0.06703123	-0.034593328	5.48297E-08	0.03459342	0.067031237	0.090183047	0.06703361	0	-0.06624973	-0.09029086	-0.06730392

Тела 1 и 2 и нить 3 (the bodies 1 and 2 and string 3)

	V	ω	g				mi	Ri	Rj		
	0.9	0.8	2.294157339				0.005	0.95	0.95		
	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	
	-2	-1	0	1	2	3	4	4.5045674	5	6	7
Pxij'	-9.999091678	-10.54506489	-10.72265351	-10.54506211	-9.999091556	-9.043189783	-7.675814022	-7.226595617	-7.66303993	-9.03239312	-9.99230201
Pyij'	0.686517955	0.371030573	-1.20733E-06	-0.371031002	-0.686517862	-0.851182036	-0.574967801	0	0.567967885	0.85142622	0.68891147
±PΣij'	10.02263145	10.55159027	10.72265351	10.5515875	10.02263133	9.08315982	7.697318291	7.226595617	7.684059375	9.07243364	10.0160221
tgαij'	-0.068658032	-0.035185234	1.12597E-07	0.035185284	0.068658023	0.094124093	0.074906427	0	-0.074117829	-0.09426364	-0.06894422
αij'	-0.068550453	-0.035170725	1.12597E-07	0.035170775	0.068550445	0.093847602	0.074766797	0	-0.073982554	-0.09398592	-0.06883529

Градусы α' -3.927651641 -2.015134092 6.45131E-06 2.015136952 3.927651162 5.37707151 4.283821928 0 -4.238888093 -5.38499644 -3.94397179

Нить 3 (the string 3)

	V		ω		g		mi		Ri	Rj	
	0.9		0.8		2.294157339		0.005		0.95	0.95	
	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	
	-2	-1	0	1	2	3	4	4.5045674	5	6	7
Pxij'	-0.389482095	-0.402208532	-0.406556909	-0.402208527	-0.389482094	-0.369812496	-0.348778378	-0.344123601	-0.348628753	-0.36961138	-0.38933021
Pyij'	0.012904275	0.007358271	-9.98903E-09	-0.007358283	-0.012904276	-0.014274906	-0.00761925	0	0.007505274	0.014258	0.01294005
$\pm P\Sigma ij'$	0.389695807	0.402275835	0.406556909	0.40227583	0.389695806	0.370087902	0.348861591	0.344123601	0.34870953	0.36988628	0.38954519
tg $\alpha ij'$	-0.033131884	-0.018294666	2.45698E-08	0.018294696	0.033131884	0.038600389	0.021845533	0	-0.021527983	-0.03857565	-0.03323668
$\alpha ij'$	-0.033119768	-0.018292626	2.45698E-08	0.018292656	0.033119769	0.038581235	0.021842059	0	-0.021524658	-0.03855654	-0.03322445
Градусы α'	-1.897622947	-1.048090242	1.40775E-06	1.04809197	1.897622998	2.210541909	1.2514578	0	-1.233272073	-2.20912673	-1.90362095

ия относительности: определение зависимости импульса замкнутой системы тел от времени»
 ll relativity: depending on the definition of the momentum of a closed system of bodies from time»

t1'	t1'	t1'	t1'	t1'	t1'	t1'	t1'	t1'	t1'	t1'	t1'	t1'
8	9	10	11	12	13	14	15	16	17	18	19	20
t1	t1	t1	t1	t1	t1	t1	t1	t1	t1	t1	t1	t1
2.883123	3.179278	3.508798	3.895082	4.392323	5.185406	6.564688	7.372369	7.8741215	8.262493	8.593183	8.890054	9.165947
8.00000201	8.99999908	10.00000033	10.99999987	11.9999985	13.0000001	14.0000003	15.0000002	16	17.000001	18.0000012	18.9999993	20.000003
3.48712003	3.92300865	4.358899087	4.794788782	5.23067806	5.66656868	6.10245865	6.5383485	6.97423831	7.41012863	7.84601861	8.2819077	8.7177992
t2	t2	t2	t2	t2	t2	t2	t2	t2	t2	t2	t2	t2
4.338734	4.669031	4.9656623	5.241406	5.504317	5.760203	6.0138095	6.2695716	6.5322205	6.807518	7.103438	7.4325703	7.818168
4.33873456	4.66903162	4.965664583	5.241406083	5.50431819	5.76020286	6.01380986	6.26957165	6.5322206	6.8075185	7.10343764	7.43257032	7.8181686
-10.1396553	-10.3160817	-10.1460231	-9.61621694	-8.68393882	-7.33972523	-7.30184508	-8.6521469	-9.5962981	-10.136427	-10.316039	-10.1491662	-9.6227889
0.36684074	0.00339604	-0.36049717	-0.67124368	-0.83661471	-0.5741163	0.5534527	0.83739799	0.67831922	0.37000627	0.00679024	-0.35732011	-0.6688634
10.146289	10.3160822	10.15242547	9.639615985	8.72414567	7.3621448	7.32278987	8.69257622	9.62024194	10.1431776	10.3160412	10.1554543	9.6460066
-0.03617882	-0.0003292	0.035530884	0.0698033	0.09634047	0.07822041	-0.07579628	-0.09678499	-0.0706855	-0.0365026	-0.00065822	0.03520684	0.0695083
-0.03616304	-0.0003292	0.035515944	0.069690258	0.09604405	0.07806146	-0.07565163	-0.09648448	-0.0705681	-0.0364864	-0.00065822	0.03519231	0.0693967
-2.07198985	-0.01886171	2.034913675	3.992957665	5.50291894	4.47259228	-4.33451893	-5.52815326	-4.0432563	-2.0905187	-0.03771332	2.01637072	3.9761355

t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
8	9	10	11	12	13	14	15	16	17	18	19	20

t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
3.445418	3.878043	4.31606	4.759404	5.207294	5.658255	6.110332	6.561356	7.009351	7.452831	7.890999	8.323768	8.751684
8.0000094	8.99999875	9.999997249	11.00000129	12.0000088	12.999997	13.9999995	14.999998	16.0000016	17.0000006	18.0000015	19.0000019	20.000001
3.48711956	3.9230085	4.358897744	4.794789401	5.23068258	5.66656731	6.10245829	6.53834754	6.97423901	7.41012845	7.84601873	8.28190884	8.7177983

t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
3.529867	3.967984	4.400704	4.828582	5.252661	5.6743109	6.095124	6.516734	6.940724	7.3684802	7.801059	8.2390269	8.6823225
3.52986762	3.96798431	4.400704813	4.82858286	5.25266077	5.67431089	6.09512419	6.51673398	6.94072435	7.36848025	7.80105906	8.23902695	8.6823225

-0.03446086	-0.03446737	-0.03446108	-0.03444449	-0.03442635	-0.03441411	-0.03441393	-0.0344259	-0.0344444	-0.0344607	-0.03446737	-0.03446119	-0.0344451
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7.7518E-06	7.6298E-08	-7.6346E-06	-1.1792E-05	-1.0447E-05	-4.2129E-06	3.9971E-06	1.0333E-05	1.1832E-05	7.8099E-06	1.5255E-07	-7.5757E-06	-1.178E-05
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0.03446086	0.03446737	0.034461081	0.034444901	0.03442635	0.03441411	0.03441393	0.0344259	0.03444438	0.03446074	0.03446737	0.03446119	0.0344451
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-0.00022494	-2.2136E-06	0.000221543	0.000342349	0.00030347	0.00012242	-0.00011615	-0.00030014	-0.0003435	-0.0002266	-4.4261E-06	0.00021983	0.0003419
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-0.00022494	-2.2136E-06	0.000221543	0.000342349	0.00030347	0.00012242	-0.00011615	-0.00030014	-0.0003435	-0.0002266	-4.4261E-06	0.00021983	0.0003419
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t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
8	9	10	11	12	13	14	15	16	17	18	19	20
t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i

3.365511	3.788833	4.227788	4.683784	5.1558235	5.639661	6.127951	6.612018	7.084455	7.540916	7.980329	8.404047	8.814839
8.0000002	9.00000047	9.999998146	10.99999901	11.999997	13.0000002	14.0000006	14.9999999	16.0000016	16.9999994	17.9999999	19.0000012	19.999999
3.48711924	3.92300926	4.358898135	4.794788407	5.23067742	5.6665687	6.10245879	6.53834837	6.974239	7.41012795	7.84601804	8.28190853	8.7177976

t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
3.618016	4.057276	4.480861	4.891551	5.292796	5.688308	6.08187	6.477277	6.878316	7.288698	7.711889	8.150694	8.606533
3.61801609	4.05727663	4.48086099	4.891551326	5.29279624	5.68830887	6.08187	6.47727702	6.87831624	7.28869866	7.71188933	8.15069396	8.6065332

-0.03484724	-0.03490409	-0.03484921	-0.03470647	-0.03454002	-0.03442845	-0.0344268	-0.03453589	-0.0347019	-0.0348462	-0.03490408	-0.03485018	-0.034708
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6.8804E-05	6.7497E-07	-6.7758E-05	-0.00010549	-9.4334E-05	-3.8278E-05	3.6322E-05	9.3321E-05	0.00010588	6.9324E-05	1.3499E-06	-6.723E-05	-0.0001054
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8	9	10	11	12	13	14	15	16	17	18	19	20
t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
3.221034	3.617608	4.045309	4.513874	5.030696	5.592084	6.173062	6.735424	7.253596	7.723412	8.152102	8.549404	8.924223
7.99999955	8.99999945	9.99999981	10.99999893	11.9999985	13.0000012	13.9999985	14.9999985	15.9999981	17.0000016	18.0000004	18.9999993	20
3.48711896	3.92300881	4.358898935	4.794788372	5.23067809	5.66656917	6.10245786	6.53834775	6.97423749	7.41012892	7.84601829	8.28190767	8.7177979
t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
3.800508	4.228867	4.625927	5.000576	5.360312	5.711516	6.059897	6.410948	6.770369	7.144518	7.54085	7.968222	8.436373
3.80050775	4.22886754	4.625926599	5.00057624	5.36031211	5.71151573	6.05989692	6.41094829	6.77036936	7.14451799	7.5408503	7.96822229	8.4363732
-0.03673667	-0.03700402	-0.03674602	-0.0360432	-0.0351552	-0.03450939	-0.03449947	-0.03513208	-0.0360197	-0.0367319	-0.03700395	-0.03675064	-0.036051
0.0003504	3.392E-06	-0.00034491	-0.00055649	-0.0005211	-0.0002188	0.00020773	0.00051612	0.00055919	0.00035313	6.7831E-06	-0.00034214	-0.0005556
0.03673834	0.03700402	0.036747643	0.036047497	0.03515906	0.03451009	0.0345001	0.03513587	0.03602404	0.03673363	0.03700395	0.03675224	0.0360553
-0.00953812	-9.1667E-05	0.009386205	0.015439601	0.01482275	0.00634043	-0.00602118	-0.01469097	-0.0155245	-0.0096136	-0.00018331	0.0093098	0.0154102
-0.00953783	-9.1667E-05	0.009385929	0.015438374	0.01482167	0.00634035	-0.0060211	-0.01468991	-0.0155233	-0.0096133	-0.00018331	0.00930953	0.015409

t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
8	9	10	11	12	13	14	15	16	17	18	19	20
t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
3.156627	3.537511	3.953994	4.421009	4.955122	5.561069	6.202506	6.810157	7.346291	7.814931	8.232583	8.614273	8.971456
7.99999802	9.00000202	10.00000128	11.00000075	12.0000006	13.0000001	13.9999992	14.999999	16.0000009	17.0000001	18.0000001	18.9999957	20.000002
3.48711829	3.92300993	4.358899503	4.794789163	5.23067897	5.66656905	6.10245816	6.53834796	6.97423869	7.41012862	7.84601815	8.28190613	8.7177985
t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
3.8919592	4.309222	4.690643	5.047643	5.388874	5.721238	6.050693	6.3829	6.723803	7.080266	7.46088	7.876974	8.3434538
3.89195926	4.30922236	4.690642954	5.047643142	5.3888744	5.72123808	6.05069316	6.38290034	6.72380314	7.08026623	7.46088059	7.87697464	8.3434538
-0.03819766	-0.03859421	-0.03821164	-0.03713888	-0.03570424	-0.03458698	-0.03456922	-0.03566546	-0.0371022	-0.0381906	-0.03859411	-0.03821854	-0.0371511
0.00055074	5.2852E-06	-0.00054194	-0.00089575	-0.00086934	-0.00037653	0.00035765	0.00086194	0.00090086	0.00055511	1.0572E-05	-0.00053752	-0.000894

0.03820163	0.03859421	0.038215478	0.037149679	0.03571482	0.03458903	0.03457107	0.03567587	0.03711309	0.03819462	0.03859411	0.03822232	0.0371618
-0.01441812	-0.00013694	0.014182621	0.024118917	0.0243485	0.01088635	-0.01034593	-0.02416726	-0.0242807	-0.0145353	-0.00027394	0.01406426	0.0240634
-0.01441712	-0.00013694	0.01418167	0.024114242	0.02434369	0.01088592	-0.01034556	-0.02416256	-0.0242759	-0.0145343	-0.00027394	0.01406334	0.0240587

t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
8	9	10	11	12	13	14	15	16	17	18	19	20
t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
3.097232	3.461882	3.864518	4.324623	4.8699775	5.523212	6.238498	6.894562	7.442684	7.90472	8.308634	8.674129	9.014389
8.00000173	9.00000092	10.00000223	10.99999956	12.0000006	13.0000008	14.0000006	14.9999994	16.0000015	16.9999989	17.9999981	18.9999991	19.999999
3.48711991	3.92300945	4.358899917	4.794788644	5.23067899	5.66656896	6.1024588	6.53834814	6.97423897	7.41012773	7.84601729	8.2819076	8.7177973

t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
3.981647	4.385133	4.750345	5.090421	5.414608	5.729962	6.042435	6.357634	6.681492	7.021022	7.385393	7.787605	8.247072
3.9816468	4.38513272	4.750345327	5.090421104	5.41460755	5.72996198	6.04243517	6.35763377	6.68149169	7.02102204	7.38539261	7.78760533	8.2470722
-0.0399628	-0.04048511	-0.03998133	-0.03852828	-0.03646116	-0.03470359	-0.0346742	-0.03640272	-0.0384773	-0.0399534	-0.04048498	-0.03999048	-0.0385452
0.0007751	7.3764E-06	-0.00076249	-0.00129284	-0.00130943	-0.00059233	0.00056308	0.0013	0.00130146	0.00078138	1.4756E-05	-0.00075615	-0.0012899
0.03997031	0.04048512	0.039988598	0.038549965	0.03648467	0.03470864	0.03467877	0.03642593	0.03849933	0.03996105	0.04048498	0.03999763	0.0385667
-0.01939563	-0.0001822	0.019071219	0.03355557	0.03591298	0.01706814	-0.01623911	-0.03571151	-0.0338242	-0.0195573	-0.00036448	0.01890837	0.033464
-0.0193932	-0.0001822	0.019068907	0.033542984	0.03589755	0.01706648	-0.01623769	-0.03569634	-0.0338113	-0.0195548	-0.00036448	0.01890611	0.0334516

t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
8	9	10	11	12	13	14	15	16	17	18	19	20
t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
3.042547	3.390975	3.778047	4.226502	4.775303	5.47624	6.283272	6.988697	7.540996	7.991588	8.379984	8.729259	9.053494
8.00000122	9.00000022	10.00000017	11.00000049	12.00000013	13.0000218	13.9999999	15.0000007	16.0000005	17.0000022	18.0000008	19.0000045	20
3.48711968	3.92300915	4.358899018	4.79478905	5.23067931	5.66657812	6.10245847	6.53834874	6.97423851	7.41012915	7.84601843	8.28190996	8.7177979

t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
4.068381	4.456334	4.805325	5.129381	5.437895	5.737839	6.034984	6.334773	6.642966	6.966486	7.314634	7.70127	8.149017
4.06838132	4.45633414	4.805324871	5.129381277	5.43789425	5.7378396	6.03498402	6.33477285	6.64296548	6.96648612	7.31463451	7.70127019	8.1490174
-0.04199611	-0.04263109	-0.04201877	-0.04020781	-0.03746855	-0.03487925	-0.03483279	-0.03738724	-0.0401429	-0.0419846	-0.04263094	-0.04202995	-0.0402293
0.00101251	9.5618E-06	-0.00099575	-0.00173107	-0.00183823	-0.00088205	0.00083955	0.00182794	0.00174433	0.00102086	1.9123E-05	-0.00098734	-0.0017266
0.04200831	0.04263109	0.042030569	0.040245055	0.03751361	0.0348904	0.0348429	0.0374319	0.04018077	0.04199703	0.04263094	0.04204154	0.0402663
-0.02410963	-0.00022429	0.023697726	0.043053149	0.04906068	0.02528866	-0.02410225	-0.04889217	-0.043453	-0.024315	-0.00044858	0.02349131	0.0429178
-0.02410497	-0.00022429	0.023693292	0.043026578	0.04902137	0.02528327	-0.02409759	-0.04885327	-0.0434257	-0.0243103	-0.00044858	0.02348699	0.0428914

t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
8	9	10	11	12	13	14	15	16	17	18	19	20
t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
2.992225	3.324829	3.695447	4.128545	4.672086	5.416913	6.339996	7.091669	7.639309	8.074639	8.446576	8.780003	9.089196
8.00000243	9.00000357	10.00000189	11.00000081	12.00000001	13.00000001	14.00000003	15.00000005	16.00000011	17.00000011	18.00000004	19.00000018	20.0000003
3.48712022	3.92301061	4.358899766	4.794789192	5.23067876	5.66656866	6.10245866	6.53834863	6.97423878	7.41012869	7.84601827	8.28190878	8.7177991
t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
4.151283	4.522779	4.855929	5.164948	5.459054	5.74497	6.028228	6.314001	6.607801	6.916304	7.248635	7.618819	8.051181
4.15128303	4.52277904	4.855929618	5.164948426	5.45905412	5.74497006	6.02822854	6.31400111	6.60780093	6.91630409	7.24863541	7.61881871	8.0511814
-0.04426013	-0.04498958	-0.04428628	-0.04216295	-0.03876697	-0.03514815	-0.03507652	-0.0386612	-0.0420854	-0.0442469	-0.0449894	-0.04429918	-0.0421886

0.00125383	1.1754E-05	-0.00123276	-0.00219322	-0.00244605	-0.00126855	0.00120968	0.00243684	0.00221209	0.00126434	2.3518E-05	-0.00122219	-0.0021868
0.04427789	0.04498958	0.044303438	0.042219958	0.03884407	0.03517103	0.03509737	0.03873793	0.04214351	0.04426494	0.04498941	0.04431604	0.0422452
-0.02832874	-0.00026127	0.027836211	0.052017749	0.06309636	0.03609152	-0.03448698	-0.06303052	-0.052562	-0.0285746	-0.00052274	0.02758948	0.0518344
-0.02832117	-0.00026127	0.027829024	0.051970907	0.06301282	0.03607586	-0.03447331	-0.06294725	-0.0525136	-0.0285669	-0.00052274	0.02758248	0.0517881

t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
8	9	10	11	12	13	14	15	16	17	18	19	20
t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
2.945899	3.263324	3.617264	4.032513	4.562409	5.341022	6.413013	7.201463	7.735824	8.153301	8.508517	8.826727	9.121874
8.00000067	9.00000247	10.00000258	10.99999989	12.000002	13.0000009	14.0000009	15.0000004	16.000002	17.0000008	18.0000017	19.0000014	20.000003
3.48711945	3.92301012	4.358900069	4.794788787	5.2306796	5.666569	6.10245893	6.53834857	6.97423916	7.41012854	7.84601886	8.28190862	8.717799

t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
4.229785	4.584574	4.902521	5.197502	5.478357	5.751471	6.022075	6.295053	6.575619	6.870111	7.187276	7.540795	7.955311
4.22978466	4.58457362	4.902520682	5.197502027	5.47835783	5.75147105	6.02207526	6.29505377	6.57561924	6.87011133	7.18727635	7.54079469	7.9553111
-0.04671849	-0.04752275	-0.04674742	-0.0443693	-0.04038486	-0.03556793	-0.03545979	-0.04025534	-0.0442812	-0.0467038	-0.04752255	-0.04676169	-0.0443984
0.00149218	1.3906E-05	-0.00146678	-0.00266343	-0.0031155	-0.00178256	0.00170497	0.00310978	0.00268863	0.00150485	2.782E-05	-0.00145404	-0.0026549
0.04674231	0.04752275	0.04677043	0.044449174	0.04050486	0.03561257	0.03550076	0.04037528	0.04436274	0.04672806	0.04752256	0.04678429	0.0444777
-0.03193989	-0.00029263	0.031376727	0.060028578	0.07714522	0.05011693	-0.04808167	-0.07725125	-0.0607172	-0.0322212	-0.0005854	0.03109471	0.0597974
-0.03192904	-0.00029263	0.031366436	0.059956631	0.07699272	0.05007503	-0.04804467	-0.07709812	-0.0606427	-0.0322101	-0.0005854	0.03108469	0.0597263

t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
8	9	10	11	12	13	14	15	16	17	18	19	20
t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i	t1i
2.903211	3.206244	3.5437676	3.939834	4.449216	5.243565	6.507664	7.315128	7.829069	8.227284	8.566016	8.869789	9.151865
8.00000211	9.00000154	10.00000341	11.00000008	12.00000007	13.00000002	14.00000001	15.00000007	16.00000011	17.00000016	18.00000017	19.0000001	20.0000002
3.48712007	3.92300972	4.358900429	4.794788871	5.23067904	5.66656871	6.10245858	6.53834871	6.9742388	7.4101289	7.84601885	8.28190841	8.7177987

t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j	t2j
4.303606	4.641932	4.945458	5.227378	5.496031	5.757417	6.016447	6.277706	6.546086	6.827547	7.130336	7.467459	7.86282
4.3036056	4.64193262	4.945458666	5.227378777	5.49603072	5.75741624	6.01644715	6.27770612	6.5460866	6.82754762	7.13033602	7.46745952	7.8628201
-0.04933772	-0.05019811	-0.04936874	-0.0467958	-0.04232941	-0.03623291	-0.036074	-0.04217915	-0.0466995	-0.049322	-0.0501979	-0.04938406	-0.0468276
0.00172279	1.5979E-05	-0.00169315	-0.00312863	-0.00382305	-0.00246042	0.0023644	0.00382323	0.00316058	0.00173758	3.1958E-05	-0.00167828	-0.0031179
0.04936779	0.05019811	0.049397769	0.046900266	0.0425017	0.03631635	0.0361514	0.04235207	0.04680628	0.04935258	0.05019792	0.04941257	0.0469313
-0.03491828	-0.00031832	0.034295892	0.066857058	0.09031656	0.06790557	-0.06554305	-0.09064277	-0.0676791	-0.0352294	-0.00063664	0.03398432	0.0665819
-0.0349041	-0.00031832	0.034282455	0.066757711	0.09007219	0.06780148	-0.06544944	-0.09039574	-0.0675761	-0.0352148	-0.00063664	0.03397125	0.0664838

t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'	t1i'
8	9	10	11	12	13	14	15	16	17	18	19	20
-10.5417845	-10.7226382	-10.5483103	-10.0058503	-9.05395226	-7.68865488	-7.65032591	-9.02155693	-9.9854759	-10.538476	-10.7225945	-10.5515314	-10.012573
0.37426084	0.00346586	-0.36779346	-0.68411183	-0.85090586	-0.58184841	0.56084295	0.85163845	0.6912947	0.37748807	0.0069299	-0.36455426	-0.6816952
10.548426	10.7226388	10.55472035	10.02920985	9.09384915	7.71063949	7.67085597	9.06166527	10.0093764	10.5452345	10.7225967	10.5578272	10.035752
-0.03550261	-0.00032323	0.034867524	0.068371183	0.0939817	0.07567623	-0.07330968	-0.09440038	-0.06923	-0.03582	-0.00064629	0.03454989	0.0680839
-0.0354877	-0.00032323	0.034853404	0.068264944	0.09370646	0.07553226	-0.07317877	-0.09412146	-0.0691197	-0.0358047	-0.00064629	0.03453615	0.067979

-2.0332956 -0.01851963 1.996952978 3.911293208 5.36898476 4.32767976 -4.19283482 -5.39276245 -3.9602692 -2.051457 -0.03702966 1.97877584 3.8949101

t1i' t1i' t1i' t1i' t1i' t1i' t1i' t1i' t1i' t1i' t1i' t1i' t1i'
8 9 10 11 12 13 14 15 16 17 18 19 20

-0.40212919 -0.40655654 -0.40228718 -0.38963341 -0.37001344 -0.34892965 -0.34848083 -0.36941003 -0.3891777 -0.4020491 -0.40655547 -0.40236515 -0.3897841

0.0074201 6.982E-05 -0.00729629 -0.01286815 -0.01429115 -0.00773212 0.00739025 0.01424046 0.01297548 0.0074818 0.00013966 -0.00723415 -0.0128317

0.40219764 0.40655655 0.402353336 0.389845842 0.37028932 0.3490153 0.34855918 0.36968441 0.38939395 0.40211873 0.40655549 0.40243018 0.3899953

-0.01845204 -0.00017173 0.018137022 0.033026299 0.03862333 0.02215953 -0.02120705 -0.03854919 -0.0333408 -0.0186092 -0.00034352 0.01797907 0.03292

-0.01844994 -0.00017173 0.018135034 0.033014299 0.03860414 0.0221559 -0.02120387 -0.03853011 -0.0333284 -0.018607 -0.00034352 0.01797713 0.0329082

-1.05710389 -0.00983967 1.039060898 1.891580007 2.2118544 1.26943961 -1.21489222 -2.20761252 -1.909578 -1.0661038 -0.0196823 1.03001385 1.8854983

t1'

21

t1

9.428947

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9.15368804

t2

8.313931

8.31393109

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5.49420377

t1i'

21

t1i

9.175788

21.0000017

9.15368853

t2j

9.130173

9.13017362

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t1i'

21

t1i

9.216154

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9.1536871

t2j

9.0784405

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-9.4664E-05

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0.0027406

0.0027406

t1i'

21

t1i

9.252032

20.9999998

9.15368769

t2j

9.019629

9.01962961

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0.00760601

t1i'

21

t1i

9.284065

21

9.15368778

t2j

8.952745

8.95274508

-0.03516294

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t1i'

21

t1i

9.312798

21.0000013

9.15368834

t2j

8.876894

8.8768946

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0.0244017

t1j'

21

t1i

9.338686

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9.15368705

t2j

8.791508

8.79150818

-0.03648069

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0.0359764

0.03596089

t1i'

21

t1i

9.362115

21.0000003

9.1536879

t2j

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8.6966614

-0.03749566

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0.04911175

0.04907232

t1i'

21

t1i

9.383405

21.0000022

9.15368872

t2j

8.593372

8.59337233

-0.03880214

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0.03887934

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0.06302863

t1i'

21

t1i

9.402826

21.0000006

9.15368804

t2j

8.483737

8.4837375

-0.04042786

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0.04054785

0.07710352

0.07695127

t1i'

21

t1i

9.420609

21.0000027

9.15368894

t2j

8.370707

8.37070716

-0.04237917

-0.00382268

0.04255123

0.09020185

0.0899584

t1i'

21

-9.06467161

-0.85060008

9.10449295

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0.09356286

5.36075687

t1i'

21

-0.37021415

-0.01430676

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0.03862532

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