Fila.Coluna	N.USP																
1.1																	
1.2																	
1.3																	
1.4																	
1.5																	
1.6																	
2.1																	
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5.1																	
5.2																	
5.3																	
5.4																	
5.5																	
5.6																	

Fila.Coluna	N.USP	a.1	a.2	a.3	b.1	b.2	b.3	c.1	c.2	c.3	c.4	d.1	d.2	d.3			
1.1	9302160	F estima	V	F	F	V	F(V)	F poderr	F(V)	V(F)	F maior	F(V)	V(F)	F			
1.3	9301749	F	V	F o term	F não é	F(V) na	V	F serve	F a anali	F os inte	V	F serven	F na ver	V			
1.4	7580776	F	V	F	F	V	F(V)	V	F	F	F	V	F	F			
1.5	8556398	F	V	F	F	V	F(V(F))	F	F	V	F	F(V)	V	F			
2.1	9301919	F	V	F (V)	F	V	F(V)	F	F(V)	V(F)	F(V)	V	V	F			
2.2	9366450	F	v	F (nenhu	F(não é	V	F(a funç	F	V(F)	V	F(maior)	F(seus d	F(V)(qua	F (é simétrica sempre)			
2.3	9164031	F	V	F	F	V	F(V)	F	V(F)	V(F)	F(V)	V	F	F			
2.4	8482441	F (variâr	V	F (indep	F (a con	V (ide e	F (V) (lin	F (as inc	F (pois,	V (F)	F(V)	V pois, g	V	F (V) (Sempre simétrica)			
2.6	7161121	F	V	F	F	V	F(V)	F	V(F)	F	F	F(V)	V	F			
3.1	9379253	F (O MM	V	F	F (É nec	V	(V) F (A	F (Não,	(V) F (É	F	V	F	V	F (ela já é simétrica para v pequeno)			
3.2	3484681	F	V	F	f	v	F	F	F	F	V	F	V	F			
3.4	8942194	F	V	F	F	V	F	F	V	F	F	F	F	V			
3.4	8945332	F	V	F	F	V	F	F	V	F	F	F	F	V			
3.5	8657095	F	V	F	F	V	F	F	F	V	F	F	V	F			
3.6	5694460	F	V	F	F	V	F	F	V	F	F	F	V	F			
4.2	6907972	F	V	F	F	V	F	F	V	V	F	F	V	F			
4.3	8962273	F (mmv	V	F(ñ depe	F	V	F	F	F	F	V	F	V	F			
4.5	9366422		V	F	F	V		F	V	F	F						
5.3	7994180	F (só N)	V	F	F (contra	V	F	F	F	V	F	F	V	F			
5.5	8540251	F	V	F	F	V	F	F	F	V (F)	F	F (V)	V	F (V)			
0.6	**gabarito**	F (por M	V	F - sem	F (basta	V (mas c	F (isto va	F (usa o	F (flutua	V (as tat	F (fazem	F (exige	V (a f(t)	F (é sempre simetrica)			

Fila.Coluna	N.USP	a.1	a.2	a.3	b.1	b.2	b.3	c.1	c.2	c.3	c.4	d.1	d.2	d.3
1.3	8676235	F(e a equação cc	V	F	F	V	F(V)	F	F	V(F)	F(fica maior)	F	v	F(v)
1.6	8944710	F	V	F	F	V	F	F	F	V (F)	F	V	V	F
2.1	9302434	F	V	F	F	V	V(F)	F	V(F)	F	F	F	V	F
2.2	9301388	F	V	F	F	V	V	F	F	F	F	F	V	F
2.3	9797430	F	V			V	F(V)	F	F	F	F			
2.4	9849010	F(correção)	V	F	F	V		F(serve pra várias)						
2.5	8945325	F - *raiz((N-1)/N)	V	F	F - MMV	V	F - funções linea	F - independe		F - pode verificar	F - sabendo PDF	F - Superestimac	V	V	F - sempre simétrica
3.2	9301590	F	V	F -só se a densid	F	V	F(V)	F	F - mostra a difer	V(F)	F -maior	V	V	F
3.3	9301944	F - N	V	F	F - MMV	V	F(V) linearidade	F - chi2 serve pa	F - se forem muit	V(F)	F - maior	V	V	F - é simétrica desde v=1
3.4	9042831	F	V	F	F	V	F (necessária lin	F	F	F	F	V	V	(V)F
3.5	8539711	F	V	F(V)	F	V	F(necessária line	F	F(pode se compa	F	F(maior)	V	V	F
3.6	8059553	F - desvio da méd	V	F	F(incerteza)	V	F(linearidade dos	F(sigma i)	F	F	F	V	V	F
4.1	8049711	F (é a correção d	V	F(V)	F (só precisa que	V	F - (Não sei se gi	F (chi2 avalia se	F (indica se as in	V(F)	F (Superestimad	F(v)	V	
4.3	8962057	F (para MMV, dei	V	F	F(a dependencia	V	F(nao precisa do	F (dispersao con	F(avalia a adequ	V(F)	F(maior)	F(monomodal e s	V	F(sempre simetrica)
4.5	8927908	F (correção)	V	F (nem se N foss	F (bastam dados	V	F(V) linearidade	F (índice i)	F (estimativas gr	F (basta saber fd	F (maior)	V (F) exige gaus	V	F (sempre simétrico)
4.6	7994663	F (denominador (	V	F (N grande impli	F(o método minir	V	F (O método é ne	F (no teste os de	V	V	F	F	V	F
5.1	7581972	F	V - variância am	F	F	V	V	F	V	F (alto chi^2)	F		V	F
5.2	8068459													
	8084829	F	V	F	F (*ajustada)	V	V	F	V	F	F (chi^2 alto)		V	F
5.3	8068588	F	V	F	F	V	V	F	F		F		V	F
5.4	7994339	F	V	F	F	V	V	F	F	F	F	V	V	F
5.5	8944752	F - (ao utilizar a r	V	F - (não há relaçã	F	V	(F - é necessario	F - (as incertezas	F - (é possível te	F - (utilizando a fi	F - (incerteza sut	V	V	(F - é sempre simétrica) V
5.6	8944644	F	V	F	F	V	V(F)	F	F	F-para outra pdf i	F-Contrario	V	V	F-mias gauss
0.6	gabarito	F (por MV seria N	V	F - sem sentido	F (basta valor e i	V (mas diminui o	F (isto vale para	F (usa o sigma_i	F (flutuação será	V (as tabelas são	F (fazem o qui2 s	F (exigem dados	V (a f(t) tende à f	F (é sempre simetrica)

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico
1.1													
1.2													
1.3	9301749	9544	21	9545	9550	21	9545	9972	5	9973	9973	5	9973
1.4													
1.5	7580776	9539	21	9545	9563	20	9545	9975	5	9973	9971	5	9973
1.6	8556398	9577	20	9545	9545	21	9545	9968	6	9973	9974	5	9973
2.1													
2.2	9366450	9542	21	9545	9544	21	9545	9978	5	9973	9965	6	9973
2.3	8482441	9546	21	9545	9527	21	9545	9969	5	9973	9976	5	9973
2.4	9164031	9521		9545	9554								
2.5	8522595	9561		9545	9541						9979		
2.6													
3.1	9301579	9542	21	9545									
3.2	9379253	9490	21	9545									
3.3	3484681	9525	21	9545	9530	21	9545	9980	5	9973	9971	5	9973
3.4	8657095	9524	21	9545	9520	21	9545	9971	5	9973	9970	5	9973
3.4	8945332	9524	21	9545	9520	21	9545	9971	5	9973	9970	5	9973
3.5	8942194	9592	21	9545	9542	21	9545	9978	5	9973	9968	5	9973
3.6	5694460	9579	21	9545	9551	21	9545	9969	5	9968	9970	5	9973
4.1													
4.2	6907972	9545	21	9545	9563	21	9545	9977	5	9973	9975	5	9973
4.3	6434721	9521	21	9545	9536	21	9545	9975	5	9973	9967	6	9973
4.4	7994339	9536	20	9545	9508	22	9545	9971	5	9973	9969	6	9973
4.5	8945325	9543	21	9545	9587	20	9545	9970	5	9973	9980	5	9973
4.6	8944644	9568	21	9545	9556	20	9545	9967	5	9973	9954	6	9973
5.1	8068588												
5.2	9366422	9553											
5.3	8540251	9571	20	9545	9458	23	9545	9972	5	9973	9969	5	9973
5.4	6880212	9577	21	9545									
5.5	6435701	9550	22	9545				9976	5	9973			
	7581972	9514	21	9545	9562	21	9545						
5.6	8944345	9563	21	9545									
0.6	gabarito	21		9545	21		9545	5		9973	5		9973
	std(nz2)	24.0		std(nt2)	27.2		std(nz3)	3.9		std(nt3)	5.9		
	inc. std(nz2)	3.5		inc. std(nt2)	4.5		inc. std(nz3)	0.7		inc. std(nt3)	1.0		

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2 (num casos com t<t2)	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico
1.1													
1.2													
1.3	8676235	9525	21	9545	9548	21	9545	9963	5	9973	9967	5	9973
1.4													
1.5													
1.6	8944710	9555	21	9545	9538	21	9545	9962	6	9973	9971	5	9973
2.1	9302434	9551	21	9545	9555	21	9545	9974	5	9973	9975	5	9973
2.2	9301388	9531	21	9545	9567	20	9545	9972	5	9973	9978	5	9973
2.3	9797430	9559	21	9545	9557	21	9545	9976	5	9970	9970	5	9973
2.4	9301590	9566	21	9545	9575	20	9545	9974	5	9973	9981	4	9973
2.5	9301944	9553	21	9545	9570	21	9545	9977	5	9973	9971	5	9973
2.6	9797340	9530	21	9545	9552	20	9545	9980	5	9973	9980	5	9973
3.1													
3.2													
3.3													
3.4	9042831	9580	21	9545	9535	21	9545	9974	5	9973	9976	5	9973
3.5	8927908	9546	21	9545	9527	21	9545	9969	5	9973	9976	5	9973
3.6	8059553	9536	21	9545	9548	21	9545	9969	5	9973	9968	5	9973
4.1	8049711	9530	21	9545	9549	21	9545	9974	5	9973	9971	5	9973
4.2	8962273	9535	21	9545	9569	20	9545	9968	6	9973	9983	4	9973
4.3	8962057	9544	21	9545	9545	21	9545	9976	5	9973	9969	6	
4.4													
4.5													
4.6													
5.1													
5.2													
5.3	8084829	9536	20	9545	9508	22	9545	9971	5	9973	9969	6	9973
5.4													
5.5	7994663	9527	21	9545									
5.6	8944752	9509	22	9545	9505	22	9545	9965	6	9973	9974	5	9973
0.6	gabarito	**21**		**9545**		**21**	**9545**		**5**	**9973**		**5**	**9973**
	std(nz2)	**15.2**		**std(nt2)**	**20.5**		**std(nz3)**	**5.2**		**std(nt3)**	**4.9**		
	inc. std(nz2)	**2.7**		**inc. std(nt2)**	**3.7**		**inc. std(nz3)**	**0.9**		**inc. std(nt3)**	**0.9**		

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2 (num casos com t<t2)	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2 (num casos com t<t2)	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2 (num casos com t<t2)	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2 (num casos com t<t2)	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a1) nz2 (num. casos com z<2)	a2) incerteza de nz2	a3) nz2 teórico	b1) nt2 (num casos com t<t2)	b2) inc. de nt2	b3) nt2 teórico	c1) nz3	c2) inc. nz3	c3) nz3 teórico	c4) nt3	c5) inc. nt3	c6) nt3 teórico

Fila.Coluna	N.USP	a) inc. estimada visualmente	b) inc. est. pelo qui2	c.1) a1 corrigido	c.2) a2 corrigido	c.3) a3 corrigido
1.1						
1.2						
1.3	8539496	1.5mV	1.4mV	59.80 (4) mV	-85.23 (4) mV	2.24 (3) mV
1.4						
1.5	7580776	1.5 mV	1.4 mV	59.80 (4) mV	-85.23(4) mV	2.24(3) mV
1.6	9301749	1.7 mV	1.4 mV	59.80(4) mV	-85.23(4) mV	2.24(3) mV
2.1	9301919	1.5 mV	1.4 mV	59.80(4) mV	-85.23(4) mV	2.24(3) mV
2.2						
2.3	3181850	1.7 mV	1.4 mV	59.80 (4) mV	-85.23 (4) mV	
2.4	9164031	2mV	1.4mV			
2.5	8522595	1.7 mV				
2.6	7161121	3 mV	1.4mV	59.802(42) mV	-85.23 (41) mV	2.237 (21) mV
3.1	9379253	1.7 mV	1.4 mV	59.80 (4) mV	-85.23 (4) mV	2.24 (3) mV
3.2	6907972	1.5 mV	1.4mV	59.80 (4) mV	-85.23(4) mV	2.24(3) mV
3.3	3484681	1.5 mV	1.4mV	59.802 (39) mV	-85.230 (39) mV	2.237 (28) mV
3.4	8942194	1.5 mV	1.4mV	59.80 (4) mV	-85.23 (4) mV	2.24 (3) mV
3.4	8945332	1.0 mV	1.4mV	59.80 (4) mV	-85.23 (4) mV	2.24 (3) mV
3.5	8657095	1.5 mV	1.4mV	59.802 (39) mV	-85.230 (39) mV	2.237 (28) mV
3.6	6434721	1.7 mV	1.4 mV	59.80(4) mV	-85.23(4) mV	2.24(3) mV
4.1	7994812	1.8mV	1.4mV	59.8(4) mV	-85.2 (4) mV	22.3 (3) mV
4.2	7994339	2 mV	1.4 mV	59.802(4) mV	-85.230(4) mV	2.237(3) mV
4.3	8962273	1.6 mV	1.4 mV	0.0598(4) V	-0.0852(4) V	0.0022(3) V
4.4						
4.5	8540251	2mV	1.4mV	59.8(4) mV	-85.2 (4) mV	22.3 (3) mV
4.6	6435701	2mV	1.4mV	59.80(4) mV	-85.23(4)mV	2.24(3)mV
5.1						
5.2	9366422	2mV	1.4mV			
5.3						
5.4						
5.5	7994180	2mV	1.4 mV	59.8 (4) mV	-85.2 (4) mV	2.2 (3) mV
5.6						
0.0	professor		1,4 mV	59,802 (39) mV	-85,230 (39) mV	2,237 (28) mV
0.0	professor			59,80 (4) mV	-85,23 (4) mV	2,24 (3) mV

Fila.Coluna	N.USP	a) inc. estimada visualmente	b) inc. est. pelo qui2	c.1) a1 corrigido	c.2) a2 corrigido	c.3) a3 corrigido
1.1						
1.2						
1.3	8676235	2.0mV	1.4mV	59.802(4)mV	-85.230(4)mV	2.24(3)mV
1.4						
1.5						
1.6						
2.1	9302434	2.0mV	1.4mV	59.80(4)mV	-85.23(4)mV	2.24(3)mV
2.2	9301388	2.0mV	1.4mV	59.80(4)mV	-85.23(4)mV	2.24(3)mV
2.3	9797430	1.5 mV				
2.4	8482441	3 mV	1.4 mV	59.8(3) mV	−85.23(4) mV	2.24(3) mV
2.5	9849010	2.0 mV	1.4 mV			
2.6	8944710	2.0 mV	1.4 mV	59.802 (39) mV	-85.230 (39) mV	2.237 (28) mV
3.1	9797340	2.5mV	1.3 mV	59.80(4) mV	-85.23(4) mV	2.24(3) mV
3.2	9301944	2.0 mV	1.3 mV	59.80(4) mV	-85.23(4) mV	2.237(25) mV
3.3	9301590	2.5 mV	1.3 mV	59.80(4) mV	-85.23(4) mV	2.237(25) mV
3.4	7994937	2 mV	1.4 mV	59.80(4) mV	-85.23(4) mV	2.24(3) mV
3.5	8945325	1.3 mV	1.4 mV	59.80(4) mV	-85.23(4) mV	2.24(3) mV
3.6	8944752	1.4 mV	1.4 mV	59.80(4) mV	-85.23(4) mV	2.237(28) mV
4.1	7581972	1mV	1.4mV	59.802(4)mV	-85.230(4)mV	2.237(3)mV
4.2	8048711	2.5 mV	1.4 mV	59.802(40)mV	-85.230(39)mV	2.237(28)mV
4.3	8962057	3mV	1.4mV	59.802(28) mV	-85.230(28)mV	2.24(2) mV
4.4	8944644	2.2 mV	1.4 mV	59.80(4) mV	-85.23(4) mV	2.24(3) mV
4.5	8059553	1mV	1.4mV	59.802(28)mV	-85.230(28)mV	2.237(20)mV
4.6						
5.1	8068459	4 mV	1.4 mV	59.802(4) mV	-85.230(4) mV	2.237(3) mV
5.2	8084829	1mV	1.4mV	59.802(4)mV	-85.230(4)mV	2.237(3)mV
5.3	7994663	1.5mV	1.4mV	59.802(39)mV	-85.230(39)mV	2.2237(28)mV
5.4	8068588	1.5 mV	1.4 mV	59.802(40) mV		
5.5	9042831	2.0 mV	1.4 mV	59.802(40) mV	-85.230(39) mV	2.2237(28) mV
5.6	8927908	2.0mV	1.3mV	59.80(4) mV	-85.23(4) mV	2.24(3) mV
0.6	professor		**1,4 mV**	**59,802 (39) mV**	**-85,230 (39) mV**	**2,237 (28) mV**
0.6	professor			**59,80 (4) mV**	**-85,23 (4) mV**	**2,24 (3) mV**
				71.42857143		

Fila.Coluna	N.USP 1	a1	a2	cov(a1,a2)	rho(a1,a2)	qui2
1.1	9302160	2.9901 (17)V	-4.2615(17)V	-1.37E-10	-4.75E-05	
1.2	9366450	2.9496(17)V	4.2613(17)V			
1.3	9301749	2.9901(17) V	-4.2615 (17) V	-1.37E-10	-4.75E-05	3313.7
1.4	8539496	2.9901(17) V	-4.2615(17)V	-1.37E-10	-4.75E-05	3313.7
1.5	8556398	2.990 (17)V	-4.2615 (17)	-1.37E-10	-4.75E-05	3313.7
1.6						
2.1						
2.2	9164031	2.99	-4.2615	-1.37E-10	-4.75E-05	3.31E+03
2.3	8522595					
2.4	9849010					
2.5	8482441	2.9901(17)	-4.2615 (17)	-1.37E-10	-4.75E-05	3313.7
2.6						
3.1	9379253	2.9901(17)V	-4.2615(17) V	-1.37E-10	-4.75E-05	3313.7
3.2	9301579	2.9901(17)V	-4.2615(17) V	-1.37E-10	-4.75E-05	3313.7
3.3	3484681	2.9901(17) V	-4.2615 (17) V	-1.37E-10	-4.75E-05	3313.7
3.4	8657095					
3.4	8942194					
3.5	8945332	2.990 (17)V	-4.2615 (17)V	-1.37E-10	-4.75E-05	3313.7
3.6	5694460	2.9901 (17) V	-4.2615 (17) V	-1.37E-10	-4.75E-05	3313.7
4.1	8944345	2.9901 (17) V	-4.2615 (17) V	-1.37E-10	-4.75E-05	3313.7
4.2	7581972	2.9901 (17) V	-4.2615 (17) V	-1.37E-10	-4.75E-05	3313.7
4.3						
4.4	8084829	2.9901(17)V	-4.2615(17)V	-1.37E-10	-4.75E-05	3313.7
4.4	7994812	2.9901(17)V	-4.2615(17)V	-1.37E-10	-4.75E-05	3313.7
4.5	6435701	2.9901(17)V	-4.2615(17)V	-1.37E-10	-4.75E-05	3313.7
4.6						
5.1	8068588					
5.2	3181850	2.9901(17) V	-4.2615(17) V	-1.37E-10	-4.75E-05	2.2864
5.3						
5.4	9366422					
5.5						
5.6	8944752			-1.37E-10		
0.6						

Fila.Coluna	N.USP 1	a1	a2	cov(a1,a2)	rho(a1,a2)	qui2
1.1						
1.2						
1.3	9301919	2.9901(17)	-4.2615(17)	0.00	-4.75E-05	
1.4	8676235	2.9899(17)	-4.2613(17)	0.00	0	
1.5						
1.6						
2.1	9302434	2.9901(17)	-4.2615(17)	-1.37E-10	-4.75E-05	3314
2.2	9301388	2.9901(17)	-4.2615(17)	-1.37E-10	-4.45E-05	3314
2.3	9797430	2.990(2)	-4.262(2)	-1.37E-10	-4.75E-05	5716
2.4						
2.5						
2.6	8944710	2.9901(17)	-4.2615(17)	-1.37E-10	-4.75E-05	3314
3.1	9301590	2.9901(17) V	-4.2615(17) V			
3.2						
3.3	9301944	2.9901(17)	-4.2615(17)	-1.37E-10	-4.75E-05	3314
3.4	9042831	2.9901(17) V	-4.2615(17) V	-1.37E-10	-4.75E-05	3314
3.5	8927908	2.9901(17) V	-4.2613(17) V	-1.37E-10	-4.75E-05	
3.6	8059553	2.9901(17) V	-4.2613(17) V	-1.37E-10	-4.75E-05	3314
4.1	8962273	2.9901(17)	-4.2615(17)	-1.37E-10	-4.75E-05	3314
4.2	8049711	2.9901(17)	-4.2615(17)	-1.37E-10	-4.75E-05	3314
4.3	8962057	2.9901(17)	-4.2615(17)	-1.37E-10	-4.75E-05	3314
4.4						
4.4						
4.5						
4.6	8539711	2.9901(17)	-4.2615(17)	-1.37E-10	-4.75E-05	
5.1						
5.2						
5.3						
5.4	7994937	2.9901(17) V	-4.2615(17) V	-1.37E-10	-4.75E-05	3314
5.5	8945325	2.9901(17)V	-4.2615(17)V	-1.37E-10	-4.75E-05	3314
5.6	8944644	2.9901(17)V	-4.2613(17)V	-1.37E-10	-4.75E-03	3314
0.6						

Fila.Coluna	N.USP 1	alfa_tll	Qui quadrado	sigma_alfa
1.1	9366450	2.12	4.107	0.13
1.2	9301919	2.00	7.8036	0.12
1.3	8556398	2.11	5.635	0.13
1.4	7560776	1.88	6.6313	0.13
1.5	9796742	2.14	6.0956	0.13
1.6				
2.1	6907972	2.17	5.735	0.13
2.2	9366422	2.18	2.57	0.12
2.3	8482441	2.07	0.87	0.19
2.4	9164031	2.70	8.01	0.12
2.5	8522595	2.08	5.36	0.13
2.6	9302160	1.92	3.461	0.13
3.1	9379253	2.16	5.0172	0.13
3.2	3484681	2.04	7.3774	0.13
3.3	9301579	2.08	7.8322	0.14
3.4	6434721	1.71	2.19	0.13
3.5				
3.6	5694460	2.28	6.04	0.13
4.1	3181850	2.21	6.13	0.13
4.2	7994339	2.04	6.06	0.13
4.3	8962273	2.11	6.03	0.13
4.4	8657095	2.18	6.587	0.13
4.4	8945332	2.17	5.256	0.13
4.5	8944345	1.92	0.34	0.13
4.6				
5.1	7994180	2.26	7.53	0.13
5.2	8540251	1.90	8.03	0.13
5.3	7994812	1.84	2.41	0.15
5.4	8084829	2.15	0.28	0.12
5.5	7581972	2.15	0.28	0.12
5.6	6435701	1.92	4.20	0.13
0.6	professor	2.04	6.06	

Fila.Coluna	N.USP 1	alfa_til	Qui quadrado	sigma_alfa	media alfas	desv-pad alfas	media Qui quadrado
1.1							
1.2	9009493						
1.3	9301749	2.12	3.64	0.15			
1.4	8676235		3.37				
1.5							
1.6							
2.1	9302434						
2.2	9301388						
2.3	9797430						
2.4	9849010	1.95	1.72	0.13			
2.5							
2.6	8944710	1.92	2.49	0.13			
3.1	9797340	1.91	3.35	0.14			
3.2	9301590	1.90	4.13	0.13			
3.3	9301944	1.95	2.30	0.15			
3.4	9042831	1.91	5.59	0.13			
3.5	8927908						
3.6							
4.1							
4.2	8049711	2.20	1.80	0.13			
4.3							
4.4	8059553	2.23	3.44	0.12			
4.5	7994663	1.96	0.66	0.13			
4.6	8539711	1.95	3.41	0.13			
5.1	8068588	1.92					
5.2							
5.3							
5.4	7994937	2.1	1.35	0.13			
5.5	8945325	1.92	4.92	0.13			
5.6	8944644	2.02	3.34	0.13			
0.6	professor	1.83	1.34	0.13			
		0.11					

Fila.Coluna	N.USP 1	alfa_til	Qui quadrado	sigma_alfa	media alfas	desv-pad alfas	media Qui quadrado

Fila.Coluna	N.USP 1	alfa_til	Qui quadrado	sigma_alfa	media alfas	desv-pad alfas	media Qui quadrado

Fila.Coluna	N.USP 1	alfa_til	Qui quadrado	sigma_alfa	media alfas	desv-pad alfas	media Qui quadrado

Fila.Coluna	N.USP 1	alfa_til	Qui quadrado	sigma_alfa	media alfas	desv-pad alfas	media Qui quadrado

Fila.Coluna	N.USP 1	alfa_til	Qui quadrado	sigma_alfa	media alfas	desv-pad alfas	media Qui quadrado

Fila.Coluna	N.USP 1	alfa_til	Qui quadrado	sigma_alfa	media alfas	desv-pad alfas	media Qui quadrado

Fila.Coluna	N.USP 1	a) sx	a) sy	a) cov(x,y)	a) rho(x,y)	b) sw	b) sz	c) sx0=sy0	c) cov0(x,y)	c) sw0	c) sz0	d) sX	d) sY	d) cov(X,Y)	d) rho(X,Y)	e) sW	e) sZ	f) sX0=sY0	f) cov0(X,Y)	f) rho0(X,Y)	f) sW0	f) sZ0	g)	h)
1.1	8556398	3.221	3.211	9.338	0.903	6.273	1.416	3.162	9	6.164	1.414	3.135	3.148	-0.007	0.001	4.438	4.441	3.162	0	0	4.472	4.472	Mesmo	Diferentes
1.2	8539496	3.177	3.166	9.025	0.897	6.178	1.437	3.162	9	6.164	1.414	3.131	3.161	0.201	0.020	4.494	4.404	3.162	0	0	4.472	4.472	Mesmo	Diferentes
1.3	9302160	3.175	3.157	9.037	0.901	6.175	1.406	3.162	9	6.164	1.414	3.196	3.177	-0.096	-0.009	4.485	4.527	3.162	0	0	4.472	4.472	Mesmo	Diferentes
1.4	8482441	3.152	3.155	8.983	0.903	6.152	1.386	3.162	9	6.162	1.407	3.159	3.216	0.060	0.006	4.521	4.494	3.162	0	0	4.472	4.472	Mesmo	Diferentes
1.5	9366422	3.148	3.164	9.021	0.905	6.154	1.406																	
1.6																								
2.1	5484455	3.155	3.143	8.925	0.900	6.138	1.407					3.233	3.195	-0.114	-0.011	4.520	4.570							
2.2	9301919	3.170	3.232	9.242	0.902	6.148	1.410	3.162	9			3.141	3.209	-0.083	-0.008	4.472	4.509	3.162	0	0				
2.3	9366450	3.126	3.126	8.814	0.902	6.156	1.421	3.162	9			3.148	3.148	0.104	0.010	4.475	4.429	3.162						
2.4	9164031	3.195	3.196	9.183	0.895	6.228	1.433	3.162	9	6.164	1.414	3.140	3.164	-0.029	-0.003	4.451	4.464							
2.5																								
2.6	7161121	3.163	3.167	9.042	0.902	6.174	1.399	3.162	9			3.155	3.175	-0.028	-0.003	4.470	4.483							
3.1	9379253	3.130	3.140	8.825	0.900	6.145	1.415	3.162	9	6.164	1.407	3.194	3.207	-0.131	-0.013	4.497	4.555	3.162	0.000	0.000	4.472	4.472	Mesmo	Diferentes
3.2																								
3.3	3484681	3.220	3.217	9.302	0.901	6.130	1.411	3.162	9.000	6.164	1.408	3.135	3.171	-0.199	-0.020	4.414	4.503	3.162	0.000	0.000	4.472	4.472	mesmo	diferentes
3.4	8945332	3.196	3.185	9.184	0.902	6.130	1.427	3.162	9	6.164	1.414	3.221	3.129	-0.216	-0.021	4.442	4.538	3.162	0	0	4.472	4.472	Mesmo	Diferentes
3.4	8942194	3.135	3.099	8.693	0.895	6.121	1.413	3.162	9	6.164	1.414	3.144	3.100	0.025	0.003	4.421	4.410	3.162	0	0	4.472	4.472	Mesmo	Diferentes
3.5	8945325	3.127	3.108	8.723	0.897	6.073	1.412	3.162	9	6.164	1.414	3.181	3.168	-0.183	-0.018	4.498	4.552	3.162	0	0	4.472	4.472	mesmo	diferentes
3.6	5694460	3.134	3.111	8.803	0.903	6.092	1.377	3.162	9	6.164	1.414	3.187	3.141	0.231	0.023	4.526	4.423	3.162	0	0	4.472	4.472	mesmo	diferentes
4.1	5197566	3.1335	3.144	9.08	0.982	6.193	1.406	3.182	9.113	6.199	1.405	3.152	3.136	-0.243	-0.024									
4.2	6907972	3.159	3.154	9.108	0.901	6.142	1.411	3.162	9	6.164	1.414	3.145	3.143	-0.123	0.015	4.440	4.54	3.162	0	0	4.472	4.472	mesmo	diferentes
4.3	8962273	3.184	3.155	9.074	0.903	6.184	1.398	3.162	9	6.164	1.414	3.166	3.159	-0.315	-0.0315	4.401	4.542	3.162	0	0	4.472	4.472	mesmo	diferentes
4.4	6434721	3.172	3.192	9.123	0.901	6.204	1.414	3.162	9	6.164	1.414	3.140	3.179	-0.323	-0.032	4.396	4.540	3.162	0	0	4.472	4.472	Mesmo	Diferentes
4.5	7994812	3.199	3.193	9.214	0.902	6.234	1.416	3.162	9	6.164	1.414	3.165	3.122	0.111	0.011	4.470	4.420	3.162	0	0	4.472	4.472	Mesmo	diferentes
4.5.2	8540251	3.147	3.137	8.876	0.898	6.123	1.411	3.162	9	6.164	1.414	3.200	3.123	0.146	0.015	4.504	4.439	3.162	0	0	4.472	4.472	mesmo	diferentes
4.6	7994339	3.159	3.147	9.260	0.904	6.19	1.427	3.162	9	6.164	1.414	3.126	3.206	-0.123	-0.012	4.45	4.505	3.162						
5.1	9796742	3.159	3.134	8.929	0.902	6.137	1.394	3.162	9	6.164	1.414	3.111	3.154	0.044	0.004	4.440	4.420	3.162	0	0	4.472	4.472	Mesmo	Diferentes
5.2	6880212	3.181	3.170	9.083	0.900	6.202	1.422	3.162	9			3.181	3.201	0.239	0.023	4.566	4.46	3.162	0	0				
5.3	7580776	3.158	3.151	8.973	0.9018	6.152	1.398	3.162	9	6.164	1.414	3.166	3.177	0.1211	0.01205	4.512	4.458	3.162	0	0	4.472	4.472	mesmo	diferentes
5.4	8944710	3.127	3.154	8.870	0.899	6.121	1.411	3.162	9	6.164	1.414	3.147	3.155	0.083	0.008	4.475	4.438	3.162	0	0	4.472	4.472	Mesmo	Diferentes
5.5	6435701	3.159	3.147	9.260	0.904	6.19	1.427	3.162	9	6.164	1.414	3.126	3.206	-0.123	-0.012	4.45	4.505	3.162	0	0	4.472	4. 472	mesmo	diferentes
5.6	8944345	3.1493	3.1541	8.9607	0.9021	6.1472	1.3946	3.162	9	6.164	1.414	3.161	3.187	0.137	0.014	4.519	4.458	3.162	0	0	4.472	4.472	Mesmo	Diferentes
0.6	Zwinglio	3.136	3.123	8.794	0.8978	6.097	1.415	3.1623	9	6.164	1.4142	3.155	3.140	0.1154	0.01165	4.477	4.425	3.1623	0	0	4.4721	4.4721	Mesmo	Diferentes
desvio-padrao		0.027	0.032	0.177	0.015	0.044	0.013																	

Fila.Coluna	N.USP 1	a) sx	a) sy	a) cov(x,y)	a) rho(x,y)	b) sw	b) sz	c) sx0=sy0	c) cov0(x,y)	c) rho0(x,y)	c) sw0	c) sz0	d) sX	d) sY	d) cov(X,Y)	d) rho(X,Y)	e) sW	e) sZ	f) sX0=sY0	f) cov0(X,Y)	f) rho0(X,Y)	f) sW0	f) sZ0	g)	h)
0.5	**professor**	3.17	3.19	9.10	0.900	6.20	1.42	3.1623	9	0.9	6.1644	1.4142	3.16	3.19	-0.00656	-6.50E-04	4.49	4.49	3.1623	0	0	4.47	4.47		
1.1	9009493	3.12	3.13	9.1	0.9	6.2	1.4	3.16	9	0.9			3.14	3.18	0.14	0.02	4.5	4.47							
1.3	9301749	3.18	3.19	9.12	0.90	6.21	1.42	3.16	9	0.9	6.16	1.41	3.12	3.13	-0.12	-0.01	4.40	4.45	3.16	0	0	4.47	4.47	Mesmo	Diferentes
2.1	9302434	3.12	3.12	8.74	0.89	6.08	1.43	3.16	9	0.9	6.16	1.41	3.15	3.20	-0.08	-0.008	4.47	4.50	3.16	0	0	4.47	4.47	Mesmo	Diferentes
2.2	9301388	3.20	3.19	9.21	0.90	6.17	1.44	3.16					3.16	3.16	0.18	0.018	4.5	4.42							
2.3	9797430	3.18	3.17	9.1	0.9	6.2	1.4																		
3.1	9797340	3.17	3.16	8.97	0.89	6.16	1.44	3.16	9	0.9	6.1644	1.41	3.13	3.17	-0.05	-0.005	4.44	4.47	10	0	0	4.47	4.47	Mesmo	Diferentes
3.2	9301590	3.11	3.11	8.64	0.90	6.05	1.42	3.16	9	0.9	6.16	1.41	3.18	3.19	0.13	0.013	4.54	4.48	3.16	0	0	4.47	4.47		
3.4	9042831	3.18	3.20	9.11	0.90	6.21	1.45	3.16	9	0.90	6.16	1.41	3.19	3.14	0.17	0.02	4.52	4.44	3.16	0	0	4.47	4.47	Mesmo	Diferentes
3.6	9863416	3.10	3.13	8.71	0.9	6.07	1.41	3.16	9	0.9	6.16	1.41	3.16	3.17	0.14	0.01	4.51	4.45	3.16	0	0	4.47	4.47	Multimetro igual	Multimetro dif.
4.2	8059553	3.18	3.19	9.15	0.9	6.21	1.42	3.16	9	0.9	6.16	1.41	3.21	3.18	0.04	0.004	4.53	4.51	3.16	0	0	4.47	4.47	Mesmo	Dif.
4.3	8927908	3.18	3.19	9.06	0.90	6.24	1.40						3.14	3.17	0.02	0.002	4.46	4.45							
5.4	7994937	3.18	3.19	8.83	0.9	6.31	1.43	3.16	9	0.9	6.16	1.41	3.2	3.09	-0.1	-0.1	4.46	4.51	3.16	0	0	4.47	4.47	mesmo	diferentes
5.5	8944752	3.10	3.13	8.71	0.90	6.11	1.42	3.16	9	0.9	6.16	1.41	3.17	3.21	-0.04	-0.004	4.50	4.52	3.16	0	0	4.47	4.47	Mesmo	Diferentes
	MEDIA	3.155	3.163	8.968	0.898	6.172	1.422						3.162	3.168	0.033	-0.003	4.486	4.473							
	Desv-Pad	0.035	0.033	0.198	0.004	0.073	0.016						0.027	0.032	0.108	0.031	0.040	0.031							

Fila.Coluna	N.USP 1	a) w_m +- sw_m	a) sw	b) x ou y ?	c) Nx ?	sw (Nx=1)	sw (Nx=2)	sw (Nx=3)	sw (Nx=4)	sw (Nx=5)	sw (Nx=6)	sw (Nx=7)	sw (Nx=8)	sw (Nx=9)	sw (Nx=10)
1.1	8556398	296.1 +- 1.6	50	x	7	47.7	34.3	27	25.4	22.2	21.3	21.1	20.8	23.5	29.7
1.2	8539496	302.1 ± 1.6	49.1	x	7	47.3	32.8	27.4	23.4	22.4	21.8	20.9	21.3	23.4	28.7
1.3															
1.4	7580776	298.4+-1.6	50.1	x		45.3	34.1	27.9	24.3	23.3	21.6	20.8	21.6	22.7	28.9
1.5	9796742	298.2 ± 1.7	51.4	x	7	45.0	32.5	28.8	24.5	23.3	21.2	20.9	21.8	23.8	27.9
1.6	6880212	299,2 +- 1,6	51.4	x	8	47.4	32.7	27.0	25.6	22.0	21.4	21.6	21.2	24.0	27.9
2.1	5484455	300.8 +/- 1.7	51.48	x	6	44.2	33.4	27.5	24.0	22.3	21.1	21.2	22.1	22.9	27.7
2.2				x											
2.3	9366450	302.6 +/- 1.6	51.1	x	7	47.1	31.7	27.5	24.6	22.7	22.1	20.7	21.8	23.2	28.8
2.4	8482441	300.6 +- 1.6	51.5	x	7	45.4	33.6	27.2	24.7	22.5	21.3	20.7	21.7	23.8	28.2
2.5															
2.6	7161121	300.6 +- 1.6	50.5	x	6	45.0	32.7	27.7	24.7	22.3	20.5	21.0	21.6	23.3	28.0
3.1															
3.2	3484681	299.4 +- 1.6	52.0	x	7	45.3	33.4	27.4	25.3	22.9	22.1	20.8	22.1	24.2	29.3
3.3	9164031	297.9 +- 1.7	53.1	x	6	44.9	33.7	26.7	24.1	21.9	21.4	22.0	22.0	23.2	28.7
3.4	8945332	296.7 +- 1.6	51.0	x	7	44.6	32.4	27.3	24.7	22.5	21.7	20.1	20.6	23.8	29.0
3.4	8942194	299.6 +- 1.7	52.4	x	7	44.2	32.7	27.9	24.8	22.5	21.2	21.1	22.5	23.0	28.7
3.5	8657095	300.48 +/- 1.60	50.49	x	7	45.7	34.7	27.2	24.9	22.3	20.4	20.3	21.1	23.0	28.8
3.6	5694460	300,4+/-1,7	53.8	x	7	45.6	34.6	27.4	24.9	22.1	20.5	20.3	21.2	22.9	28.7
4.1	5197566	301.76 +-1.6	51.68	x	6	45.8	31.9	26.5	24.9	22	22	21.4	20.7	23.6	28
4.2	8540251	299.1 +- 1.7	53.1	x	7	45.5	32.7	27.2	24.2	22.2	20.6	20.4	21.6	22.4	28.5
4.2.1	7994812	300.86 +- 1.6	51.4	x	6	45.3	32.8	27.8	24.8	23.1	21.4	21.71	21.8	23.1	28.3
4.3	3181850	297.8 +- 1.7	51.5	x	6	45.7	34.6	27.7	24.7	22.9	20.4	21	21.6	23.2	28
4.4															
4.5															
4.6															
5.1	7994180	299.6 +/- 1.7	52.9	x	7	45.24	33.13	27.94	23.48	23.02	21.87	20.45	21.94	22.53	29.15
5.2	9366422	301.8 +- 1.6	50.8	x	6	44.3	32.5	27	23.1	22.2	21.4	21.5	21.6	24	28.8
5.3	6907972	300,6 +- 1.6	52.8	x	7	46.5	32.1	27.7	24.1	23.2	22	21.2	21.2	22.3	29.8
5.4	6435701	299.2 +- 1.7	53.9	x	7	45.4	32.2	28.3	24.6	22.1	21.5	21.1	21.4	22.8	28.8
5.5	8944644	298.2 +/-1,7	53,0	x		44.2	31.7	26.8	24.4	23.6	21.3	20.1	21.8	23.9	29.0
5.6	8944752	300.2 ± 1.6	50.8	x	8	45.2	34.0	28.2	24.6	23.1	22.6	22.0	21.7	23.5	28.7

Fila.Coluna	N.USP 1	a) w_m +- sw_m	a) sw	b) x ou y ?	c) Nx
1.1	9009493	299.8 +- 1.6	51.6	x	7
1.2					
1.3	8676235	299.2+-1.6	51.8	x	7
1.4					
1.5	9301919	299.02 +- 1.6	51.3	x	
1.6					
2.1	9302434	299.1 +-1.6	51.6	x	7
2.2	9301388	301.7+-1.6	50.2	x	6
2.3	9797430	301±2	51.4	x	
2.4	9849010				
2.5					
2.6	8944710	298.1 +- 1.7	54.0	x	7
3.1	9301590	299.5 +- 1.6	50.6	x	7
3.2	9301944	302.2 +- 1.7	53.8	x	7
3.3	9797340	301.5 +- 1.7	51.1	x	7
3.4	9042831	299.7 +- 1.5	48.6	x	7
3.5					
3.6	8927908	300.2 +- 1.6	51.6	x	8
4.1					
4.2	8962273	299.4 +- 1.7	1.6	x	6
4.3	8962057	302.0+-1.6	1.6	x	6
4.4	8539711	298.9 +-1.6	50.1	x	7
4.5	8059553	300.8+-1.6	51.7	x	7
4.6					
5.1					
5.2	8084829	300.1 +- 1.6	49.9	x	7
5.3	7581972	301.5 +- 1.6	51.3	x	7
5.4	8945325	299.5 +- 1.6	50.8	x	8
5.5					
5.6					

Fila.Coluna	N.USP 1	N.USP 2	1	2	3	4	5	6
1.1	8539496		F	F(V)	V(F)	V	V	F
1.2	8556398		F	F(V)	V	V(F)	V	F
1.3	9301749		F	F	V	V	V	V
1.4	7580776		F	F	V	F	V	V
1.5	9796742		F	F	V	F	V	V(F)
1.6	6880212		V(F)	V(F)	F	F(V)	V	F
2.1	5484455		F	V(F)	V	F	V	F
2.2	9302160		F	F(V)	F	V(F)	V	V
2.3	9366450		F	F(V)	F	F	F	
2.4	9164031		F	F(V)	V	F	V	V
2.6	6434721		F	F(V)	F	V(F)	V	F(V)
3.1	5197566		F	V	F	F	F	V
3.3	8522595		F	F	F	V	V	V
3.4	8945332	8942194	F	F	V	F	F	V
3.5	8657095		F	F	F	V	V	V
3.6	5694460		F	F(V)	F	V(F)	V	F
4.1	7161121		F	F	V	F	V	V
4.2	8084829	7994812	F	F	F	V	V	F
4.3	8944345		F	F(V)	F	F(V)	V	F
4.4	8945325		F	F	F	F	V	F
5.2	7994180		F	F	F	V(F)	V	F(V)
5.3	8068459	8540251	F	V	V	F	V	V
5.4	9366422		F	F	V	F	V	V
5.5	3181850		V(F)	F	F	F	F	V
0	zwinglio		F	F	F	V	V	F

7994812
8540251
8942194

Fila.Coluna	N.USP 1	a	b	c	d	e	f	g	h
1.1	9009493	F	V	F	F	F	F	V	F
1.3	8676235	F(V)	V	F	F(V(F))	V(F)	F	v	F
1.5	7994663	F	V	F	F	F	V	V	F
1.6	8944710	V	V	F(V)	F	F	F	V	F(V)
2.1	9302434	V	V	F	F	V(F)	V(F)	V	F
2.2	9301388	V	V	F(V)	F	V(F)	V(F)		
2.3	9797430	V	V/F		V	F	V/F		F
2.4	9849010	F	V	F(V)	F	F	V	V	F
2.5	8539711	F	V	F	V(f)	V	V	V(F)	F
2.6	8059553	F	V	F	F	F(V)	F(V)	V	F
3.1	9301944	F	V	F	F	V(F)	F	V	V(F)
3.2	9301590	F	V	F(V)	F(V)	F	F		
3.4	9042831	F	V	F	F	F	F(V)	V	F
3.5	9797315	F	V	F	F	F	F	V	
3.6	8927908	F	V	F	F	F	F	V	F
4.1	8049711	V	V	F	F	F	F	V	F
4.2	8962273	V	V	F	F	F	F	V	F
4.3	8962057	V	V	F	F	F	F	V	F
4.6	9863416	F(V)	V	F	F	F	F	V	F
5.4	7994937	F	V	F	F	F	v	v	F
5.5	8944644	F	V	F	F	F/V	V	V	F
5.6	8944752	F	V	F	F	F	F	V	F
0	professor	F	V	F	F	V	V	V	F

Fila.Coluna	N.USP 1	n (para N=1e4)	pi_exp=4*n/N	inc. n
1.1				
1.2	9796742	7890	3.1560	41
1.3	7580776	7880	3.1520	41
1.4	9302160	7833	3.1332	41
1.5	6880212	7791	3.1164	41
1.6				
2.1	9301579	7857	3.1384	41
2.2	3494681	7818	3.1272	41
2.3	9301919	7872	3.149	41
2.4	9164031	7829	3.1316	41
2.5				
2.6	7161121	7840	3.136	41
3.1	5197566	7887	3.1548	41
3.2				
3.3	6434721	7888	3.1552	41
3.4	8942194	7894	3.1576	41
3.5	8945332	7822	3.1288	41
3.6	5694460	7869	3.1476	41
4.1	7994812	7843	3.1372	41
4.2	8540251	7873	3.1492	41
4.3	8962273	7803	3.1212	41
4.4				
4.5				
4.6				
5.1	8084829	7830	3.132	41
5.2	7994180	7824	3.13	41
5.3				
5.4	9366422	7828	3.1312	41
5.5				
5.6				
0	Zwinglio	7829	3.1316	41
	Média	**7848**		
	Desvio-padrão	**31**		

Fila.Coluna	N.USP 1	2D - n (para N=1e4)	2D - pi_exp=4*n/N	3D - pi_exp=6*n/N (N=1e4)
1.1	9009493	7836	3.1344	3.1788
1.2	8676235	7915	3.166	3.0858
1.3	9301749	7897	3.1548	3.1620
1.4	9849010	7869	3.1476	3.1362
1.5	8482441	7865	3.146	3.196
1.6				
2.1	9302434	7890	3.1560	3.1110
2.2	9301388	7811	3.1244	3.1548
2.3	9797430	7853	3.1412	3.1452
2.4	8539711	7846	3.1384	3.144
2.5	8059553	7832	3.1328	3.096
2.6				
3.1	9301944	7870	3.1480	3.0936
3.2	9301590	7835	3.1340	3.1422
3.3	9797340	7804	3.1216	3.1344
3.4				
3.5	9042831	7855	3.142	3.132
3.6	9863416	7858	3.1432	3.1404
4.1				
4.2	8049711	7828	3.1312	3.1830
4.3	8962057	7811	3.1244	3.1092
4.4				
4.5				
4.6	7994683	7930	3.172	3.1482
5.1	8068585	7945	3.138	3.1440
5.2	7994339	7855	3.142	3.1338
5.3	8068459	7966	3.1864	3.1062
5.4	7994037	7836	3.136	3.114
5.5	8946544	7931	3.1724	3.1482
5.6	8944752	7823	3.1292	3.1704
0	professor	7883	3.1532	3.1704
6.1	8945325	7904	3.1616	3.1944
	valor medio	**7863**		
	desvio padrao	**41**	**0.016**	**0.030**
	sigma_n_teorico	41.05458419		

In [out]

Fila.Coluna	N.USP 1	N. USP 2	N	Skew	inc_Skew	Kurt	inc_Kurt	P1=P(|x-x0|<s0)	inc_P1	P2=P(|x-x0|<2*s0)	inc_P2	P3	inc_P3
1.1	8011869		**2**	0.0013	0.0014	2.4002	0.00218	0.64996	0.0005	0.96614	0.0002	1	0
1.2	8539496		**3**	0.0017	0.0016	2.6002	0.0025	0.66663	0.00051	0.95809	0.00019	1	0
1.3	9301749		**5**	0.0046	0.0019	2.7601	0.0038	0.67258	0.00049	0.95724	0.00021	0.99904	0.00003
1.4	9302160		**10**	-0.0005	0.0022	2.880	0.004	0.678	0.0004	0.95602	0.00019	0.99811	0.00004
1.5	9366422		**25**	-0.0002	0.0025	2.946	0.0045	0.68021	0.00044	0.95508	0.00022	0.99759	0.000049
1.6			**100**										
2.1	8539541		**2**	0.0009	0.0016	2.4	0.0021	0.6498	0.0005	0.9663	0.0002	1	0
2.2	3463187		**3**	-0.0028	0.0017	2.5972	0.0026	0.66575	0.00050	0.95846	0.00024	1	0
2.3	8522595		**5**	0.0028	0.0017	2.7563	0.0033	0.67274	0.00048	0.95689	0.00022	0.99908	0.00003
2.4	9164031		**10**	-0.002	0.002	2.879	0.005	0.6255	0.0004	1	0	1	0
2.5	5484455		**25**	0.0018	0.0023	2.956	0.004	0.6809	0.0004	0.95502	0.00021	0.99752	0.00005
2.6	7161121		**100**	-0.0035	0.0025	2.987	0.005	0.6827	0.0001	0.9546	0.0002	0.9974	0.0001
3.1	9379253		**2**	0.0016	0.0014	2.402	0.0022	66.49%	4.83E-04	0.9662	1.78E-04	1	0
3.2	9301579		**3**	7.00E-04	0.0018	2.63	0.0024	0.66	0	0.95824	0	1	0
3.3	3484681		**5**	-0.0002	0.0022	2.7604	0.0035	0.67179	0.00050	0.95695	0.00020	0.999090	0.000029
3.4	8945332	8657095	**10**	0.0017	0.0023	2.8809	0.0023	0.6512	0.0004	0.95578	0.00021	0.99875	0.00005
3.5	5197566		**25**	-0.0028	0.0025	2.94	0.0041	0.68067	0.0005	0.96	0.00021	0.99	0.000049
3.6	5694460		**100**	0.0011	0.0026	2.9846	0.0049	0.6822	0.0005	0.95438	0.00020	0.99740	0.00005
4.1	9796742		**2**	-0.0016	0.0015	2.4027	0.0023	0.6495	0.0005	0.96601	0.00019	1	0
4.2	7580776		**3**	0.0008	0.0018	2.5969	0.0023	0.6658	0.0005	0.9583	0.0002	1.0000	0.0000
4.3	8944752		**5**	-0.0017	0.0021	2.760	0.003	67.31%	0.04%	95.72%	0.02%	99.905%	0.003%
4.4	8942194		**10**	0.003	0.002	2.879	0.004	0.6778	0.0004	0.9557	0.0002	0.99813	0.00004
4.5	6434721		**25**	0.0010	0.0025	2.949	0.004	0.6805	0.0004	0.95481	0.00022	0.99768	0.00004
4.6	8945325		**100**	-3.0E-04	0.0024	2.983	0.005	0.6823	3E-04	0.95468	1.5E-04	0.99736	5E-05
5.1	8068588		**2**	5.00E-04	0.0015	2.4	0.0021	0.64931	5.00E-04	0.966	2.00E-04	1	0
5.2	3181850		**3**	0.0029	0.0017	2.64	0.0031	0.65	0.0005	0.96	0.0002	1	0
5.3	6907972	7368215	**5**	0.0024	0.0017	2.8	0.0038	0.67	0.0005	0.96	0.00023	1.00	0.000031
5.4	8944345		**10**	-0.004	0.002	2.879	0.004	0.6773	0.0005	0.9556	0.0002	0.99810	0.00004
5.5	8068459	7994339	**25**	0.0010	0.0028	2.963	0.004	0.6820	0.0005	0.95497	0.0002	0.99753	0.00005
5.6	8540251	7994812	**100**	0.0028	0.0024	2.987	0.005	0.6831	0.0004	0.9544	0.0002	0.99743	0.00004

7368215
7994339
7994812
8657095

Fila.Coluna	N.USP 1	N	Skew	inc_Skew	Kurt	inc_Kurt	P1=P(|x-x0|<1*s0)	inc_P1	P2=P(|x-x0|<2*s0)	inc_P2	P3	inc_P3	1-P3
	professor	1	-0.5648	0.0016	2.3996	0.0029	0.6283	0.0004	0.96173	0.00020	1	0	0
2.1	9302434	2	-0.4045	0.0017	2.7034	0.004	0.65750	0.00045	0.96732	5.30E-04	0.99798	0.00005	0.00202
3.1	9301919	2	-0.400	0.002	2.705	0.004	0.6592	0.0005	0.9670	0.0002	0.99794	0.00004	0.00206
4.1	8049711	2	-0.3979	0.0022	2.6992	0.0046	0.65895	0.00045	0.96691	0.00019	0.997920	0.000047	0.002080
5.1	7994663	2	-0.4017	0.0017	2.7022	0.0035	0.65855	0.00043	0.96696	0.00016	0.99784	0.00043	0.00216
2.2	9301388	3	-0.3248	0.0019	2.7948	0.0044	0.66784	0.00058	0.96264	0.00020	0.99749	0.00005	0.00251
4.2	8962273	3	-0.3277	0.0022	2.8001	0.0045	0.66713	0.00046	0.96242	0.00020	0.997580	0.000049	0.002420
	8944411	3	-0.330	-0.021	2.81	0.05	0.6676	0.0005	0.96213	0.00018	0.99751	0.00005	0.00249
1.3	8676235	5	-0.24829	0.0019273	2.8755	0.0044879	0.67469	0.00047	0.95811	0.00020	0.99765	0.00005	0.00235
2.3	9797430	5	-0.25	-0.002	2.88	0.05	0.483	0.003					
4.3	8962057	5	-0.2534	0.0068	2.898	0.016	0.6750	0.0014	0.95808	0.00063	0.99760	0.00015	0.00240
5.3	7581972	5	-0.2524	0.0024	2.884	0.0050	0.67436	0.00048	0.95796	0.0002	0.99755	0.00046	0.00245
2.4	8944710	10	-0.1815	0.0020	2.938	0.005	0.6788	0.0005	0.95604	0.00020	0.99755	0.00004	
3.4	9301944	10	-0.1787	0.0022	2.935	0.005	0.6786	0.0005	0.95649	0.00021	0.99756	0.00005	0.00244
4.4	9797315	10	-0.1816	0.0022	2.937	0.005	0.6783	0.0005	0.95597	0.00018	0.99755	0.00005	0.00245
5.4	8927908	10	-0.1774	0.0023	2.940	0.004	0.6789	0.0004	0.9562	0.0004	0.99755	0.00005	0.00245
2.5	9849010	25	-0.1106	0.0026	2.978	0.0044	0.68214	0.005	0.95536	0.00020	0.99746	0.00005	0.00254
3.5	9301590	25	-0.1180	0.0021	2.976	0.005	0.6807	0.0004	0.95468	0.00021	0.99737	0.00005	0.00263
4.5	9042831	25	-0.1195	0.0025	2.979	0.005		0.0005	0.9555	0.0002	0.99740	0.00005	0.00260
5.5	8944644	25	-0.114	0.0023	2.974	0.0053	0.682	0.0004	0.955	0.0002	0.9976	0.00005	0.0024
2.6	9863416	100	-0.0606	0.0024	3.0007	0.0046	0.68232	0.00044	0.95471	0.00023	0.99727	0.000053	0.00273
3.6	9797340	100	-0.256	0.002	2.88	0.04	0.6751	3E-04	0.958100	1E-04	0.99754	0.00005	
5.6	8059553	100	-0.0591	0.0024	3.0000	0.0049	0.6817	0.0004	0.95439	0.00021	0.99719	0.00004	0.00281
1.1	8482441	100	-0.054	0.002	2.08	0.004	0.683	0.0003	0.956	0.00024	0.99468	0.000042	0.00532
1.2													
1.4				-									
1.5													
1.6													
3.2													
3.3													
4.6													
5.2													

24/08/2017			**(1)** *f(x) = A*exp(-x)* **para** *x*>=0					**(2)** *f(x) = A*(1 - x^2)* **para** |x|<=1				
Fila.Coluna	**N.USP 1**	**N. USP 2**	**inc_xm**	**inc_xM**	**inc_sx**	**inc_Skew**	**inc_Kurt**	**inc_xm**	**inc_xM**	**inc_sx**	**inc_Skew**	**inc_Kurt**
1.1	8556398		0.040	0.044	0.055	0.30	2.8					
1.2	8539496		0.050	0.052	0.067	0.34	3.0					
1.3	9301749		0.044	0.042	0.061	0.29	2.6					
1.4	7580776		0.043	0.043	0.060	0.30	2.6					
1.5	9796742		0.042	0.044	0.058	0.34	3.3					
1.6	6880212		0.040	0.044	0.056	0.03	2.88	0.01	0.28	0.007	0.06	0.1
2.1	5484455		0.045	0.047	0.060	0.38	3.8					
2.2	3463187		0.051	0.047	0.064	0.29	2.5					
2.3	5197566		0.044	0.041	0.064	0.33	3.3					
2.4	9849010		0.043	0.046	0.062	0.34	3.3					
2.5												
2.6	7161121		0.046	0.041	0.059	0.39	4.10					
3.1	9379253	9301579	0.046	0.045	0.062	0.30	2.59					
3.2												
3.3	3484681		0.046	0.046	0.063	0.32	3.12	0.014	0.020	0.007	0.045	0.051
3.4	9366450		0.047	0.044	0.060	0.33	2.6					
3.5	8945332	8942194	0.043	0.045	0.056	0.34	3.3	0.024	0.036	0.012	0.08	0.09
3.6	5694460		0.043	0.042	0.060	0.34	3.0	0.010	0.020	0.010	0.014	0.025
4.1	6435701		0.04	0.05	0.06	0.36	3.3					
4.2	8522595		0.051	0.041	0.071	0.37	3.5					
4.3	8944752	8945325	0.05	0.05	0.07	0.27	2.2	0.019	0.028	0.010	0.06	0.07
4.4	8482441		0.040	0.042	0.058	0.42	4.78					
4.5	9302160		0.043	0.043	0.06	0.33	3					
4.6	8657095		0.049	0.044	0.57	0.39	4.18					
5.1	8068588											
5.2	7994180		0.423	0.043	0.614	0.348	3.211					
5.3	6907972	7994339	0.003	0.003	0.004	0.028	0.30	0.010	0.020	0.010	0.013	0.024
5.4	9366422		0.043311	0.043954	0.063764	0.36456	1.9276					
5.5	3181850		0.046	0.044	0.06	0.26	2.08					
5.6	9164031		0.04	0.04	0.05	0.4	3.5					

7994339
8942194
8945325
9301579

24/08/2017		**(1)** *f(x) = A*exp(-abs(x))*								**(2)** *f(x) = A*(1 - x^4)* **para** |x|<=1							
Fila.Coluna	**N.USP 1**	**xm**	**inc_xm**	**xM**	**inc_xM**	**sx**	**inc_sx**	**K**	**inc_K**	**xm**	**inc_xm**	**xM**	**inc_xM**	**sx**	**inc_sx**	**K**	**inc_K**
1.1																	
1.2	9009493	0.03	0.06	-0.01	0.05	1.46	0.07	4.8	1.4								
1.3	8676235	-0.0268	0.0612	0.0305	0.0457	1.4729	0.0716	5.5516	0.9802								
1.4																	
1.5																	
1.6	8944710	0.06	0.06	0.04	0.04	1.39	0.07	4.7	1.0								
2.1	9302434	0.04	0.06	0.04	0.04	1.38	0.07	4.4	1.2								
2.2	9301388	0.07	0.06	0.02	0.04	1.41	0.06	7.9	1.0								
2.3	9797430	-0.2	0.4	-0.14	0.28	0.19		1.6	3.53								
2.4																	
2.5	9301944	0.07	0.06	0.05	0.04	1.40	0.07	4.4	1.2								
2.6	9797340	0.03	0.06	0.01	0.04	1.41	0.07	6.6	1.3								
3.1	8059553	0.03	0.06	0.01	0.04	1.41	0.07	5.2	1.4								
3.2	8927908	0.08	0.07	-0.015	0.04	1.48	0.08	5.5	1								
3.3																	
3.4																	
3.5	8539711																
3.6	9863416	-0.090	0.065	-0.090	0.042	1.47	0.071	5.72	1.29								
4.1	8962273	0.024	0.066	0.010	0.044	1.317	0.070	5.6	1.2								
4.2	8049711	0.120	0.058	0.047	0.048	1.415	0.070	5.5	1.2								
4.3	8962057	0.057	0.062	0.048	0.040	1.357	0.072	7.0	1.4								
4.4	9797315	0.06	0.06	0.03	0.05	0.32	0.33	5.7	1.2								
4.5	9042831	-2.00E-02	6.00E-02	2.00E-04	2.80E-03	-9.00E-02		0.39	4.9	1.4							
4.6																	
5.1	7994663	-0.003	0.062	-0.004	0.051	1.415	0.062	2.9	1.9								
5.2																	
5.3																	
5.4	7994937	-0.0021	0.06	-0.0002	0.04	1.4	0.07	5	1								
5.5	8944644	0.034	0.06	0.041	0.051	1.409	0.308	5.259	1.327								
5.6	8084829	0.051	0.06	0.046	0.049	1.42	0.071	5.5	1.2								

Fila.Coluna	N.USP 1	N. USP 2	G	A	sigma_0	P(abs(x)<=s_0)
1.1	9369488		2	3/(4*L)	sqr(5)*L/5	
1.2	8556398		3	2/(3*L)	sqr(2)*L/3	0.612
1.3	9301749		4	5/(8*L)	L*sqr(5/21)	0.603
1.4	5197566		2	3/(4*L)	L/sqr(5)	0.6261
1.5	9302160		3	2/(3*L)	L/3*sqr(2)	0.628
1.6	6880212		4	5/8L	L*sqr(5/21)	60.30%
2.1	5484455		2	3/4L	L/sqr(5)	62,6%
2.2	8522595		3	2/3L	L/3*sqr(2)	
2.3	9164031		4	5/(8L)	Lsqr(5)/sqr(21)	
2.4	8539496		2	3/4L	L/sqr(5)	62.61%
2.5	9796742		3	2/(3*L)	(L/3)*sqr(2)	61.21%
2.6	7580776		4	5/(8L)	L*sqr(5/21)	60.30%
3.1	9379253		4	5/(8*L)	L*sqr(5/21)	61.66
	9301579		2	3/4*L	L/sqr(5)	62.60%
3.2	3484681		3	2/(3*L)	(L/3)*sqrt(2)	0.612079
3.3	7994812	8084829	4	5/8L	L*sqr(5/21)	0.603
3.4	8945332	8942194	2	3/(4L)	L/sqr(5)	0.6261
3.5						
3.6	5694460		4	5/(8L)	L*sqr(5/21)	61%
4.1	8944752		2	3/(4L)	L/sqr(5)	62.61%
4.2	8945325		3	2/(3*L)	sqr(2)*L/3	61.20%
4.3	8539541		4	5/8L	L*(sqr(5/21))	
4.4	6435701	8540251	2	3/4L	L / sqrt(5)	62.61%
4.5						
4.6	8944345	8068459	3	2/3L	Sqr(2) * (L/3)	
5.1	8068588	7994339	3	2/3L	Sqr(2) * (L/3)	61.21%
5.2	7994180		3	frac(2)(3L)	Sqr(2) * (L/3)	61.20% =(
5.3	6907972	7368215	4	5/(8L)	L*sqr(5/21)	60.30%
5.4	9366422	3181850	2	3/4L	sqr(L)-(2/5)	
5.5	9301774		3	2/3L	L/sqr(2/9)	
5.6	5386702		4	5/(8L)	L/sqr(5/21)	60.66%

3181850
7368215
7994339
8068459
8084829
8540251
8942194

Fila.Coluna	N.USP 1	G	A	sigma_0	P
1.1	8944710	2	3/(4*L)	L/(sqrt(5))	63%
1.2					
1.3	8676235	4	5/8L	RAIZ(5/21*L)	60,3%
1.4					
1.5	9849010	3	2/3L	L*raiz(2)/3	0.613
1.6					
2.1	9302434	2	3/(4L)	L/(sqrt(5))	63%
2.2	9301388	3	2/(3L)	(L*sqrt(2))/3	61%
2.3					
2.4	9797430	2	3/4L	L/sqrt(5)=0.447L	63%
2.5					
2.6	9863416	4	5/(8*L)	sqrt(5/21)*L	60,8%
3.1	8927908	2	3/(4L)	L/sqrt(5)	63%
3.2	9797315	3	2/3*L	L*sqrt(2)/3	61,2%
3.3	9042831	4	5/(8*L)	sqrt(5/21)*L	60.3%
3.4					
3.5	7994663	3	2/(3*L)	L*(sqrt(2/9))	
3.6	9301919	4	5/(8*L)	L*sqrt(5/21)	60.30%
4.1	8049711	2	3/(4L)	L/sqrt(5)	62.6%
4.2	8962273	3	2/(3L)	(L/3)*sqrt(2)	61,2%
4.3	8962057	4	5/(8L)	raiz(5/21)L	0.603
4.4					
4.5					
4.6	8059553	4	5/(8L)	raiz(5/21)*L	60%
5.1	9797340	2	3/(4L)	L/sqrt(5)	63%
5.2	9301590	3	2/3L	L/3*sqrt(2)	61.2%
5.3	9301944	4	5/(8L)	L*sqrt(5/21)	60.3%
5.4	7994937	2	3/(4*L)	L/(sqrt(5))	0.63
5.5	8944644	3	2/(3L)	(L*(2)^1/2)/3	0.612
5.6	8539711	4	5/8L	L*sqrt(5/21)	0.603
					61.25000%

Fila.Coluna	N.USP	item A	item B	item C	item D	item E	item F
1.1	9369488	F	V	F	F(V)	F	F
1.2	8011869	F	V	F (V)	V	F	F
1.3	9009493	F	V	F / (V)	F	N/A	F
1.4	8539496	F(V)	V	V	F	F	F
1.5	9366450	F	V	V	F(V)	F	F
1.6	8556398	F	V	V	F(V)	F	F
2.1	5484455	F	V	V	V	F	F
2.2	3463187	F	V	F(V)	F	F	F
2.3	9164031	F	V	F	F(V)	F	F
2.4	6514693	F	V	V	V	F	F
2.5	3484681	F	V	V	V	F	F
2.6	9301749	F	V	V	V	F	F
3.1	5197566	F	V	V	V	F	
3.2	8962273	F	V	V	F	F(V)	F
3.3	8482441	F	V	V	F (V)	F (V)	F
3.4	8945332	F	V	V	V	V	F
3.4	8942194	F	V	V	V	V	F
3.5	6907972	F	V	V	V	F	F
3.6	5694460	F	V	V	V	F	F
4.1	6435701	F	V	F	F	V	F
	7994812	F	V	F	F	V(F)	F
4.2	7581972	F	V	F	V	V(F)	F
	8068459	F	V	F	V	V(F)	F
4.3	8944345	F	V	F(V)	F	V	F
	8540251	F	V	F(V)	F	V	F
4.4	7580776	F	V	V	F	V	F
	6880212	F	V	V	F(V)	V	F
	9302160	F	V	V	F	F	F
4.5	9796742	F(V)	V	V	F	F	F
	3181850	V	V	V	F	V	F
4.6							
5.1	8068588	F	V	V	F	F	F
5.2	8522595	V	V	V	V	F	F
	7161121	F	V	F	F	F	F
5.3	6434721	F	V	V	F	F	F
	7994180						
5.4	9366422	F	V	V	V		F
5.5	9301774	F	V	V	V	F	F
5.6	9379253	F	V	V	V	F	F
	9301579	F	V	V	F	F	F
x	8945325	F	V	F	F	N/A	F
	7159942						

Fila.Coluna	N.USP	item A	item B	item C	item D	item E	item F
1.1	4796486	F	F	V	V	F	F
1.2							
1.3	8676235	F	V	V	F	F	F
1.4	9797402	F	V	V	F	F	F
1.5	9849010	F	V	V	F	F	F(V)
1.6							
2.1	9302434	F	V	F (V)	F	F	F
2.2	9301388	F	V	V	F	F	F
2.3	9797430	F	V	V	F	F	F
2.4	9301944	F	V	V	F	F	F
2.5	9301590	F(V)	V(F)	V	F	F(V)	F
2.6	9797340	F	V	V	F	F	F
3.1	8944752	F	V	V	F	F	F
3.2	8059553	F(V)	V	V	F	F	F
3.3	8927908	F(V)	V	F(V/F)	F	F	F
3.4	9042831	F	V	V	F	F	F
3.5							
3.6							
4.1							
4.2	8049711	F	V	V	F	F	F
4.3	8962057	F	V	V	F	F	F
4.4							
4.5							
4.6	9863416	F	V	V	F	F	F
5.1	7994663	F	V	V	F	F(V)	F
5.2							
5.3							
5.4	7994339	F	V	V	F	F	F
5.5	8084829	F	V	V	F	F	F
5.6	8944644	F	V	V	F	F	F

Fila.Coluna	N.USP 1	x1	x2	x3	x4	x5	x6	
1.1	9369488	310	335	350	265	280	295	
1.2	8539496	297	322	315	242	266	333	
1.3	8482441	298	289	342	270	320	305	
1.4	7580776	320	289	270	362	303	258	
1.5	9302160	360	315	268	253	295	333	
1.6	6434721	320	273	301	355	259	337	
2.1	5484455	289	311	295	321	333	269	
2.2	9756742	286	297	345	322	299	304	
2.3	9164031	287	291	289	304	281	318	
2.4	9366450	303	320	295	277	245	315	
2.5	9301919	278	285	245	266	320	380	
2.6	6880212	280	320	340	280	260	310	
3.1	9379253	300	306	366	298	266	333	
3.1.2	9301579	323	298	288	313	305	285	
3.2	8540251	310	340	260	240	370	265	
3.3	3484681	325	300	275	311	291	302	
3.4	8657095	292	305	302	290	311	295	
3.5	8945332	318	291	312	289	297	342	
3.5	8942194	322	332	350	321	320	299	
3.6	5694460	320	295	290	312	301	287	
4.1	5197566	320	330	335	315	325	318	
4.2	8539541	278	303	362	255	298	322	
4.3	8011869	305	321	315	277	295	263	
4.4	7159942	290	250	305	310	360	355	
4.5	8522595	343	257	360	240	330	263	
4.6								
5.1	7161121	337	283	325	323	264	298	
5.2	7994180	326	334	367	291	279	264	
5.3	6907972	325	314	286	287	267	333	
5.4	9366422	400	385	437	344	449	390	***
5.5	3181850	311	325	333	297	233	347	
5.6	7161434	275	250	305	345	323	320	

xm	311.2
N	31
xm TODOS	307.0
N TODOS	186
sigma TODOS	34.50

Fila.Coluna	N.USP 1	x_1	x_2	x_3	x_4	x_5	x_6	Média	Desvio Padrão	Desvio Padrão da Média
1.1	4796486	290	310	290	320	280	330	303.3	19.7	8.0
1.2	9009493	295	250	245	255	260	265	261.7	17.8	7.3
1.3	8676235	322	260	310	299	320	330	306.8	25.3	10.3
1.4	9797402	247	287	344	316	368	299	310.2	42.8	17.5
1.5										
1.6	9849010	278	260	292	284	324	305	290.5	22.2	9.1
2.1	9302434	300	290	280	320	330	340	310.0	23.7	9.7
2.2	9301388	277	310	295	324	282	312	300.0	18.4	7.5
2.3	9797430	377	300	250	280	310	305	303.7	42.1	17.2
2.4	9797340	373	312	298	256	243	325	301.2	47.5	19.4
2.5	8944710	315	297	320	288	276	308	300.7	16.8	6.9
2.6	9301749	305	315	298	307	293	321	306.5	10.4	4.2
3.1	8056953	276	317	280	340	295	310	303.0	24.2	9.9
3.2	8944752	241	302	336	351	220	296	291.0	51.6	21.1
3.3	9797315	263	287	324	264	332	307	296.2	29.6	12.1
3.4	9042831	220	305	280	266	325	330	287.7	41.5	16.9
3.5	8927908	303	342	271	264	337	333	308.3	34.5	14.1
3.6	9301590	322	295	376	310	340	354	332.8	29.8	12.2
4.1	8049711	280	276	298	325	346	333	309.7	29.2	11.9
4.2	8962273	300	290	310	336	284	265	297.5	24.2	9.9
4.3	8962057	275	280	290	270	310	320	290.8	20.1	8.2
4.4	8084829	320	275	260	340	315	300	301.7	29.8	12.2
4.5	7994663	261	330	245	382	320	278	302.7	51.0	20.8
4.6	9863416	278	265	312	310	320	300	297.5	21.5	8.8
5.1	8068588	250	312	292	290	310	340	299.0	30.0	12.3
5.2	7994339	309	290	265	302	320	321	301.2	21.2	8.6
5.3	7581972	317	325	308	292	291	278	301.8	17.8	7.3
5.3-a2	8068459	274	281	313	341	268	301	296.3	27.7	11.3
5.4	8945325	305	198	284	388	357	266	299.7	67.6	27.6
5.5	8944644	320	289	270	340	316	299	305.7	24.8	10.1
5.6	8539711	321	291	301	275	305	255	291.3	23.4	9.6
x	7994937	300	300	310	350	280	270	301.7	27.9	11.4
x2	9301944	360	291	305	275	301	255	297.8	35.6	14.5
Média		296.1	291.6	295.4	308.1	305.6	304.7		Desv pad max	
Desvio Padrão		35.6	26.8	28.4	35.3	32.1	26.7		67.6	
Desvio Padrao da Média		6.3	4.7	5.0	6.2	5.7	4.7			
N		32	32	32	32	32	32			
									#DIV/0!	
sigma_todos_os_dados		31.23								
N_total		192								

Fila.Coluna	N.USP 1	x_1	x_2	x_3	x_4	x_5	x_6		Média	Desvio Padrão	Desvio Padrão da Média

Fila.Coluna	N.USP 1	x_1	x_2	x_3	x_4	x_5	x_6		Média	Desvio Padrão	Desvio Padrão da Média

Fila.Coluna	N.USP 1	x_1	x_2	x_3	x_4	x_5	x_6		Média	Desvio Padrão	Desvio Padrão da Média

Fila.Coluna	N.USP 1	x_1	x_2	x_3	x_4	x_5	x_6		Média	Desvio Padrão	Desvio Padrão da Média

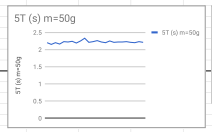
Fila.Coluna	N.USP 1	x_1	x_2	x_3	x_4	x_5	x_6		Média	Desvio Padrão	Desvio Padrão da Média													
																		eu sou fodaaaa						

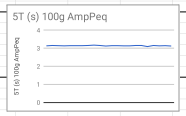
Fila.Coluna	N.USP 1	N. USP 2	5T (s) m=100g	5T (s) m=50g	5T (s) m=250g	5T (s) verde	5T (s) dourada	5T (s) vermelha
1.1	9369488		3.10					
1.2	8539496		3.14	2.17	4.97	2.64	3.92	5.54
1.3	9366450		3.11	2.18	4.93	2.61	3.95	5.47
1.4	7159751		3.11					
1.5	8556398		3.16					
1.6	9302160		3.13					
2.1	5484455		3.12	2.21	4.97	2.61	3.96	5.54
2.2	9796742		3.09	2.20	4.95	2.63	3.99	5.52
	7580776		3.13	2.24	4.94	2.63	3.98	5.56
2.3	6880212		3.13					
		6435701	3.14					
2.4	8962273		3.11	2.21	4.94	2.62	3.96	5.51
2.5	6514693	_2.81		2.21	4.93	2.64	3.94	5.5
2.6	6434721		3.14					
3.1	9301579		3.15					
		9379253	3.16					
3.2	9009493		3.11					
3.3	8540251	_2.97						
		8944345 _3.01						
3.4	9301749		3.15	2.21	4.97	2.61	3.97	5.49
3.5	3484681		3.15	2.01	4.98	2.62	3.99	5.51
3.6	5094460		3.12					
4.1	8539541		3.12					
4.2	8945325		3.15	2.22	4.96	2.65	3.98	5.54
		7994937	3.1	2.21	4.97	2.63	3.98	5.48
4.3	8944752		3.13	2.21	4.97	2.62	3.95	5.51
4.4	8945332		3.12	2.2	4.95	2.64	3.97	5.52
		8942194	3.15					
4.5	8657095		3.16					
4.6								
5.1	5197566		3.15					
5.2	7994812		3.20					
		8522595	3.13					
5.3	7161121		3.15	2.19	4.93	2.63	3.96	5.53
5.4	9366422		3.13	2.15	4.95	2.63	3.89	5.54
5.5	9301774		3.08					
5.6	7161434		3.15					

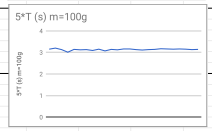
M (g)		Massa (g)	100	50	250	verde	dourada	vermelha
Dt_m (s)		Dtm (s)	3.132	2.188	4.954	2.627	3.959	5.517
s_m (s)		sm (s)	0.004	0.014	0.004	0.003	0.007	0.007
N		N	33	15	15	15	15	15
s_Dt (s)		sigma Dt (s)	0.024	0.054	0.017	0.012	0.027	0.025

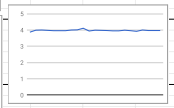
6435701
7994937
8522595
8942194
8944345
9379253

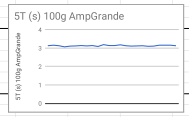
Fila.Coluna	N.USP 1	N. USP 2	5*T (s) m=100g	5T (s) m=50g	5T (s) m=250g	5T (s) verde	5T (s) dourada	5T (s) vermelha	5T (s) 100g AmpGrande	5T (s) 100g AmpPeq
1.1	4796486		3.15	2.2	5.01	2.62	3.97	5.52	3.13	3.13
1.2										
1.3	8676235		3.2	2.15	4.81	2.55	3.87	5.5	3.16	
1.4	9797402		3.13	2.2	4.96	2.63	3.99	5.55	3.13	3.15
1.5	9849010		3.01	2.16	4.86	2.62	4	5.5	3.07	
1.6										
2.1										
2.2	9302434		3.14	2.23	4.94	2.62	3.98	5.55	3.11	3.14
2.3	9301388		3.12	2.22	4.96	2.61	3.96	5.49	3.12	3.13
2.4	9797430		3.13	2.24	4.97	2.6	3.96	5.53	3.14	3.14
2.5	9797315		3.09	2.19	4.92	2.60	3.96	5.54	3.12	3.14
2.6	9797340		3.15	2.25	4.95	2.63	4	5.58	3.14	3.14
3.1	8945030		3.07	2.33	5.1	2.6	4.01	5.54	3.09	3.15
3.2	9301919		3.14	_2.49	4.92	_3.03	4.11	5.52	3.19	3.17
3.3	7994339		3.12	2.21	4.92	2.6	3.94	5.53	3.14	3.15
3.4	9042831		3.16	2.23	4.96	2.62	3.99	5.53	3.14	3.12
3.5	9863416		3.16	2.26	5.02	2.63	3.98	5.52	3.18	3.14
3.6										
4.1	8084829		3.13	2.22	4.95	2.6	3.97	5.5	3.13	3.14
4.2	8068459		3.11	2.2	4.96	2.62	3.95	5.52	3.11	3.13
4.3	8540518		3.13	2.25	4.97	2.58	3.95	5.51	3.12	3.13
4.4	8059553		3.14	2.21	4.97	2.61	3.99	5.5	3.13	3.15
4.5	8049711		3.17	2.22	4.97	2.60	3.96	5.54	3.10	3.15
4.6										
5.1	9301944		3.16	2.22	4.96	2.6	3.92	5.54	3.11	3.09
5.2	9301590		3.15	2.23	5.02	2.61	4.00	5.61	3.16	3.15
5.3	8539711		3.16	2.21	4.98	2.62	3.97	5.56	3.16	3.13
5.4										
5.5	8944644		3.15	2.2	4.94	2.63	3.97	5.54	3.16	3.14
5.6	7581972		3.13	2.23	4.95	2.61	3.97	5.53	3.13	3.12
0.6			3.14	2.21	4.94					

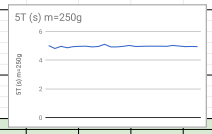


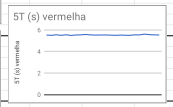












M (g)		m (g)	100	50	250	verde	dourada	vermelha	100 Amp Grande	100 Amp Peq
Dt_m (s)		Dtm (s)	3.134	2.220	4.956	2.609	3.974	5.531	3.132	3.138
s_m (s)		sm (s)	0.006	0.007	0.006	0.007	0.007	0.007	0.007	0.007
N		N	25	24	25	23	24	24	24	22
s_Dt (s)		s_Dt (s)	0.037	0.035	0.053	0.018	0.041	0.027	0.028	0.016
			0.032							
			0.034							

	só a mola	Posição de equilíbrio (cm) com diferentes massas						
	x0 (cm)	50 g	100 g	250 g	verde	amarela	vermelha	Observações e correções:
8676235	10	16	20	34	17	25.5	40	Algarismos Significativos
9302160	10.0	14.7	19.6	34.2	16.8	25.4	40.0	
5197566	10	14.7	19.8	34.1	16.6	25.3	39.9	O x0 é 10.0 cm ?
5484455	10.1	15.0	19.9	34.5	17.0	25.7	40.3	Excelente
3484681	10	15	21.5	34.5	17	25.7	40.8	Algarismos Significativos
8945332	10	15	20	34	17	25.5	40	Algarismos Significativos
7580776	20	24.9	29.7	44.2	26.7	35.5	50.2	O x0 é 20.0 cm?
9796742	10	15	19.7	34.5	16.8	25.5	40.2	Erro de digitação (já corrigido para massa 100 g) e Algarismos Significativos
9797315	10.0	14.6	19.5	34.1	16.7	25.3	39.8	
8962273	10	14.9	19.8	34.3	16.8	25.5	40	Algarismos Significativos
9301749	30.2	35.2	39.9	54.7	37.1	45.8	60.3	Excelente
9366450	10.0	14.8	19.5	34.0	17.6	25.1	39.9	
9301590	31.0	35.7	40.5	55.0	37.7	46.2	56.9	Posição de equilíbrio errada para massa vermelha
9301388	0.0	4.8	9.8	24.4	6.8	15.4	30.0	
7994339	10.0	15.0	19.8	34.2	16.8	25.5	40.0	
8540518	20	24.8	29.6	44.2	26.6	35.3	50	Algarismos Significativos
9379253	10.0	14.7	19.8	34.1	16.7	25.4	39.9	
8556398	10.0	14.9	19.8	34.2	16.9	25.4	40.1	
9797340	20.0	24.8	29.9	44.3	26.6	35.6	50.1	
8539496	10.0	14.9	19.9	34.5	17.0	25.7	40.2	
8945325	10.0	14.9	19.8	34.3	16.7	25.5	40.0	
9797430	0	5.0	10.0	24.5	7.0	15.9	30.3	O x0 é 0 cm ou é 0.0 cm?
8944752	21.0	25.9	30.5	45.0	27.6	36.3	50.8	
9042831	20.0	24.8	29.6	44.2	26.6	35.4	49.8	
9302434	0.0	4.8	9.5	24.2	6.8	15.2	30.0	
9301944	0.0	4.9	9.5	24.9	6.7	16.1	30.9	
7994937	0.0	4.8	9.6	24.2	6.9	15.5	30.1	
9863416	29.8	34.5	39.5	54.0	36.5	45.0	59.6	Excelente
9849010	30.3	35.9	40.8	55.0	37.8	46.2	61.0	Excelente
7581972	29.0	34.0	38.7	54.2	35.2	45.2	59.2	
8944644	30.1	34.9	39.9	53.9	35.5	45.2	60	Excelente, no caso do x0, mas o x(vermelha) é 60 cm ou 60.0 cm ?
8944710	10.1	14.9	19.7	34.4	16.9	25.6	40.2	Excelente
8945030	29.3	34.1	38.9	53.3	36.0	44.8	59.3	Excelente
7161121	10.0	14.9	19.4	34.0	16.6	25.3	39.8	