

11.4 A supplementary experiment (1)

- P The aim of the supplementary experiment is to check, whether the observed features are caused by the basic thematic factor, the word / phrase structure, or by the number allocation. The 4 critical aspects as mentioned in the last section 11.3 shall here be taken into account.
- P The experiment is performed as a comparison of feature quantities for the basic thematic factor out of the standard number allocation with feature quantities for those random thematic factors out of the chosen random number allocations, that will show up for the key word “ $\alpha\delta\epsilon\lambda\phi\omicron\varsigma$ ” (brother). The hit table for the standard number allocation is the one presented in section 11.2.
- P The 39 hits resulting from the sample of 467 word / phrase combinations of max. 3 words in length are taken unchanged as elements for the comparison test for the following reasons:
- ▶ All phrases are theologically relevant and show the same theological meaning. Therefore, all hits can be accepted without prior selection.
 - ▶ In all phrases the same feature applies (multiples of “90”). The comparison will show, whether the difference from randomness results from the number allocation, the thematic factor, or the word / phrase structure.
 - ▶ The average word length (WLA) is **not** considered as a feature for comparison.
- P The random number allocation of Dr. Stanton contained in Theomatics II and two additional random number allocations are used. The latter were set up for this test, they will produce whole numbered thematic factors for the key word “ $\alpha\delta\epsilon\lambda\phi\omicron\varsigma$ ” (brother; 2 out of 3 trials):

	α	β	γ	δ	ϵ	ζ	η	θ	ι	κ	λ	μ	ν	ξ	\omicron	π	ϕ	ρ	σ - ς	τ	υ	φ	χ	ψ	ω	
Std.	1	2	3	4	5	6	7	8	9	10	20	30	40	50	60	70	80	90	100	200	300	400	500	600	700	800
R#1	6	5	3	9	8	2	1	4	7	30	70	50	80	10	20	40	90	60	700	200	400	500	800	100	300	600
R#2	8	7	1	9	5	3	4	2	6	60	80	40	90	70	50	20	30	10	800	300	700	400	500	600	200	100
R#3	3	6	5	2	4	8	1	9	7	70	10	40	80	60	90	50	20	30	300	600	700	800	100	400	200	500

- P The experiment for 39 elements is performed manually.
- P The results of the experiment are presented in the following two tables:
- ▶ Table for basic thematic factor “90” and random number allocations
 - ▶ Table for random thematic factors “53”, “49”, and “47” and random number allocations

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11.4 A supplementary experiment (2)

Luke 15:10-32 Statistical Analysis										date: 25.06.04		file: luke15_exp_el							
No.	Verse	Greek	Words	R # 1				R # 2				R # 3							
				Value	Multiple	Clustering		Value	Multiple	Clustering		Value	Multiple	Clustering					
					90	0	+/-1	+/-2		90	0	+/-1	+/-2		90	0	+/-1	+/-2	
Key word: αδελφος				1.113	12,367				882	9,800				799	8,878				
1	15:10	αμαρτωλω	1	2.442	27,133				1.846	20,511				2.126	23,622				
2	15:11	ιους	1	1.270	14,111				1.180	13,111				2.320	25,778				
3	15:12	και ειπεν ο νεωτερος κντων	3	3.774	41,933				3.616	40,178				4.572	50,800				
4	15:12	και ειπεν νεωτερος	2	2.129	23,644				3.522	39,133				1.966	21,844				
5	15:12	ο νεωτερος κντων	2	2.313	25,700				3.298	36,644				2.000	22,222				
6	15:12	νεωτερος	1	2.469	27,322				4.331	48,122				2.218	24,644				
7	15:12	και διελεν κντοις βιον	3	1.512	16,800				2.042	22,689				2.742	30,467				
8	15:13	νεωτερος υιος κπεδημητρν	3	3.155	35,056				3.301	36,678				4.529	50,322				
9	15:13	υιος κπεδημητρν	2	1.189	13,211				1.301	14,466				2.311	25,678				
10	15:14	κντου	1	1.446	16,067				1.528	16,978		X		2.353	26,144				
11	15:15	εκολληθη	1	233	2,589				195	2,167				169	1,878				
12	15:17	ακρος μου	2	2.056	22,844				2.368	26,311				2.603	28,922				
13	15:17	εγω	1	611	6,789				106	1,178				509	5,666				
14	15:19	επι κξιος κληθηκει	3	625	6,944				921	10,233				1.155	12,833				
15	15:19	υιος σου	2	1.510	16,778				1.500	16,667				2.970	33,000	X			
16	15:20	ηλθε προς ακρικ	3	2.309	25,666				2.754	30,600				2.060	22,889				
17	15:20	και κτεφυλησεν κντων	2	3.032	33,689				3.298	36,644				3.953	43,922				
18	15:21	κντω ο υιος	2	2.316	25,733				2.008	22,311				3.573	39,700				
19	15:21	και ουκει επι	2	1.302	14,467				1.628	18,089				1.941	21,567				
20	15:24	οι ουτοι υιοι μου	3	3.040	33,778				3.510	39,000	X			5.470	60,778				
21	15:24	ο υιος μου	2	1.430	15,889				1.310	14,566				2.500	27,778				
22	15:24	ην ακοιλωως	2	1.660	18,333				710	7,889				1.822	20,244				
23	15:25	ην ο υιος κντου	3	2.270	25,222				2.400	26,667				3.992	44,366				
24	15:25	ην ο υιος	2	824	9,166				872	9,689				1.639	18,211				
25	15:25	ο κρεσβυτερος	1	2.891	32,122				3.387	37,633				3.434	38,166				
26	15:25	ηγγισε τη οικια κρουσε	3	1.660	18,333				2.106	23,400				3.078	34,200				
27	15:27	οι ο αδελφοι	1	1.623	18,033				1.682	18,689				1.669	18,544				
28	15:27	αδελφοι	1	1.113	12,367				882	9,800				799	8,878				
29	15:27	ακτρ σου τον μοσχον	3	2.880	31,778				4.160	46,111				4.532	50,366				
30	15:27	υγιανον ακ κντων κπελαβεν	3	2.174	24,166				2.768	30,756				3.574	39,711				
31	15:28	αργισθη δε και	1	1.667	18,522				1.431	15,900				1.580	17,566				
32	15:28	ο ουν ακτρ κντου	2	3.236	35,966				3.578	39,756				4.346	48,278				
33	15:29	δουλενω	1	1.707	18,967				974	10,822				2.196	24,400				
34	15:29	εντολην σου ακτηρθον	3	2.169	24,100				2.603	28,922				2.862	31,800				
35	15:30	σου ο υιος	2	1.920	21,333				2.160	24,000	X			3.650	40,566				
36	15:31	εμε ακ εστιν	3	948	10,533				1.546	17,178				2.124	23,600				
37	15:32	οι ο αδελφοι σου ο υιος	3	3.543	39,367				3.842	42,689				5.319	59,100				
38	15:32	αδελφοι σου ο υιος	3	3.033	33,700				3.042	33,800				4.449	49,433				
39	15:32	σου ο υιος *)	2	1.920	21,333				2.160	24,000	X			3.650	40,566				
39	Total		81			0	0	0		4	3	0	1		1	1	0	0	
*) no double count for D. Washburn				2,077	observed	0%	0%	0%	0%		10%	8%	0%	3%		3%	3%	0%	0%
					FEH	100%	20%	40%	40%		100%	75%	0%	25%		100%	100%	0%	0%
					expected	100%	20%	40%	40%		100%	20%	40%	40%		100%	20%	40%	40%

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11.4 A supplementary experiment (3)

Luke 15: 10-32														Statistical Analysis			date: 25.06.04			file: luke15_exp_el		
No.	Verse	Greek	Words	Value	R #1 Multiple 53	Clustering			Value	R #2 Multiple 49	Clustering			Value	R #3 Multiple 47	Clustering						
						0	./+1	./+2			0	./+1	./+2			0	./+1	./+2				
Key word:				αδελφος	1.113	21,000				882	18,000				799	17,000						
1	15:10	αμαρτανω	1	2.442	46,075				1.846	37,673				2.126	46,234							
2	15:11	υιους	1	1.270	23,962			X	1.180	24,082				2.320	49,362							
3	15:12	και ειπεν ο νεωτερος αυτων	3	3.774	71,208				3.616	73,796				4.572	97,277							
4	15:12	και ειπεν νεωτερος	2	2.128	40,151				3.522	71,878				1.966	41,930							
5	15:12	ο νεωτερος αυτων	2	2.313	43,642				3.298	67,306				2.000	42,563							
6	15:12	νεωτερος	1	2.469	46,396				4.331	88,388				2.218	47,191							
7	15:12	και διειλεν αυτοις βιον	3	1.512	28,528				2.042	41,673				2.742	58,340							
8	15:13	νεωτερος υιος απεδημησεν	3	3.155	59,528				3.301	67,367				4.529	96,362							
9	15:13	υιος απεδημησεν	2	1.189	22,494				1.301	26,551				2.311	49,170							
10	15:14	αυτου	1	1.446	27,283				1.528	31,184				2.353	50,064							
11	15:15	εκολληθη	1	233	4,396				195	3,980		X		169	3,596							
12	15:17	πατρος μου	2	2.066	38,792				2.368	48,327				2.603	55,383							
13	15:17	εγω	1	611	11,528				106	2,163				509	10,830							
14	15:19	επι αξιος κληθηται	3	625	11,792				921	18,796				1.155	24,574							
15	15:19	υιος σου	2	1.510	28,491				1.500	30,612				2.970	63,191							
16	15:20	ηλθε προς πατερα	3	2.309	43,566				2.754	56,204				2.060	43,830							
17	15:20	και κατεφιλησεν αυτον	2	3.032	57,208				3.298	67,306				3.953	84,106							
18	15:21	αυτω ο υιος	2	2.316	43,698				2.008	40,980		X		3.573	76,021		X					
19	15:21	και ουκετι επι	2	1.302	24,566				1.628	33,224				1.941	41,298							
20	15:24	οτι ουτος υιος μου	3	3.040	57,358				3.510	71,633				5.470	116,383							
21	15:24	ο υιος μου	2	1.430	26,981		X		1.310	26,735				2.500	53,191							
22	15:24	ην απολωλω	2	1.650	31,132				710	14,490				1.822	38,766							
23	15:25	ην ο υιος αυτου	3	2.270	42,830				2.400	48,980		X		3.992	84,936							
24	15:25	ην ο υιος	2	824	15,547				872	17,796				1.639	34,872							
25	15:25	ο πρεσβυτερος	1	2.891	54,547				3.387	69,122				3.494	73,064							
26	15:25	ηγγαγε τη οικια ηκουσε	3	1.650	31,132				2.106	42,980		X		3.078	65,489							
27	15:27	οτι ο αδελφος	1	1.623	30,623				1.682	34,327				1.669	35,511							
28	15:27	αδελφος	1	1.113	21,000	X			882	18,000	X			799	17,000	X						
29	15:27	πατερ σου τον μοσχον	3	2.860	53,962			X	4.150	84,694				4.532	96,426							
30	15:27	ηγακνοντα αυτον απελαβεν	3	2.174	41,019		X		2.768	56,490				3.574	76,043			X				
31	15:28	ωργισθη δε και	1	1.667	31,463				1.431	29,204				1.580	33,617							
32	15:28	ο ουν πατερ αυτου	2	3.236	61,057				3.578	73,020		X		4.346	92,447							
33	15:29	δουλετω	1	1.707	32,208				974	19,878				2.196	46,723							
34	15:29	εντολην σου παρεληθον	3	2.169	40,925				2.603	53,122				2.862	60,894							
35	15:30	σου ουτος	2	1.920	36,226				2.160	44,082				3.660	77,660							
36	15:31	εμε σα εστιν	3	948	17,887				1.546	31,551				2.124	46,191							
37	15:32	οτι ο αδελφος σου ουτος	3	3.543	66,949				3.842	78,408				5.319	113,170							
38	15:32	αδελφος σου ουτος	3	3.033	57,226				3.042	62,082				4.449	94,660							
39	15:32	σου ουτος *)	2	1.920	36,226				2.160	44,082				3.660	77,660							
39	Total	0	81		5	1	2	2	6	1	5	0	3	1	1	1						
				2,077	observed	13%	3%	5%	5%	15%	3%	13%	0%	8%	3%	3%	3%					
*) no double count for D. Washburn					expected	100%	20%	40%	40%	100%	17%	83%	0%	100%	33%	33%	33%					
						100%	20%	40%	40%	100%	20%	40%	40%	100%	20%	40%	40%					

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11.4 A supplementary experiment (4)

P The table for the basic theomatic factor "90" and the 3 random number allocations shows the following hits compared to the hits for the standard number allocation:

Theomatic factor	Std. "90"	R # 1 "90"	R # 2 "90"	R # 3 "90"
Direct hits	15	0	3	1
+/- 1 hits	16	0	0	0
+/- 2 hits	8	0	1	0
Total	39	0	4	1

P The table with the random theomatic factors "53", "49", and "47" and the 3 random number allocations shows the following hits compared to the hits for the standard number allocation:

Theomatic factor	Std. "90"	R # 1 "53"	R # 2 "49"	R # 3 "47"
Direct hits	15	1	1	1
+/- 1 hits	16	2	5	1
+/- 2 hits	8	2	0	1
Total	39	5	6	1

P **Result of the supplementary experiment:**

- ▶ The average quantity of hits resulting from random number allocations is in the level of the basic probability, i.e. the probability related to randomness. Obviously, neither the theomatic factor "90", nor the word / phrase structure do have an influence on the quantity of the observed hits which is beyond randomness.
- ▶ It can be deduced from the results of the experiment, that the high quantity of hits for the standard number allocation is only due to the special feature of this number allocation.

P **SUMMARY TEST RESULTS** of section 11

- ▶ **The observed quantity of theomatic hits is significantly not random.**
- ▶ **The observed distribution of theomatic hits (clustering) is significantly not random.**
- ▶ **The observed quantity of theomatic hits and the hit distribution obviously result from the standard number allocation.**

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