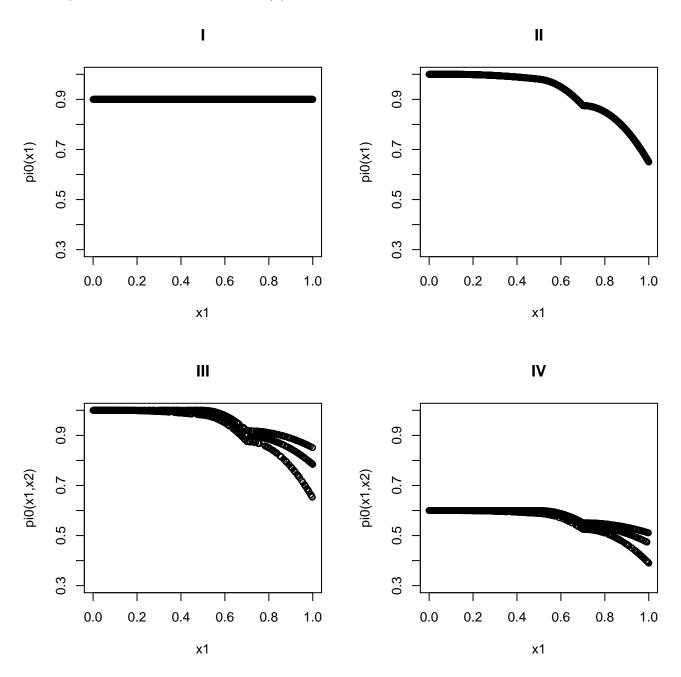
Simulations, independence

Consider 10,000 tests in each simulation, 200 simulations per scenario, nominal FDR = 5%. The following 4 functions are considered for $\pi_0(x)$:



Estimated false discovery rates (FDR) and true positive rates (TPR) percentages. BL = Boca-Leek. W.S. = well-separated null and alternative, P.S. = poorly separated null and alternative. For III and IV, a dummy variable was used for x_2 , along with linear or spline terms for x_1 . Used reviewer's definition of "well-separated" and "poorly-separated." Used both the theoretical and empirical nulls for the Scott method. For the t-test, considered 2 groups of 6 (so 2x6 = 10 df) and used the t-statistics instead of the z-statistics for the Scott method. Extended "well-separated" and "poorly-separated" definition to chisquared test, generating means fom the absolute value of a normal distribution with mean 9, respectively 1. For the chisquared test, 1 df corresponds to a 2x2 table, 4 df to a 3x3 table. Used the z-values obtained from back-transforming the p-values for the Scott method in this case.

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						FDR					TPR		
Beta(1,20)	$\pi_0(x)$	Dist. under H_1	Reg. model	BL	Scott T		Storey	BH	BL	Scott T		Storey	BH
II		Beta(1,20)	Linear	3.7	90.0	90.0	3.7	3.6	0.0	100.0	100.0	0.0	0.0
Hi	II	Beta(1,20)	Linear	3.1	92.6	92.6	3.1	3.0	0.0	100.0	100.0	0.0	0.0
Hi	II	Beta(1,20)	Spline	3.1	92.6	92.6	3.1	3.0	0.0	100.0	100.0	0.0	0.0
IV Beta(1,20) Linear 5.0 56.9 4.8 2.5 1.2 100.0 0.5 0.0 IV Beta(1,20) Spline 5.0 56.9 5.9 5.0 4.8 2.5 2.0 100.0 0.5 0.0 I Norm (W.S.) Linear 5.0 5.0 5.9 5.0 4.5 50.6 50.6 52.1 50.7 49.6 II Norm (W.S.) Linear 4.9 5.2 5.3 4.9 4.6 48.4 63.9 62.9 47.3 46.6 II Norm (W.S.) Spline 4.9 5.2 5.3 4.9 4.6 48.8 64.0 63.0 47.3 46.6 III Norm (W.S.) Spline 4.9 5.2 5.5 4.9 4.7 44.2 60.2 59.3 43.5 43.0 III Norm (W.S.) Spline 4.9 5.2 5.4 4.9 4.7 44.4 60.6 59.7 43.5 43.0 IV Norm (W.S.) Spline 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 IV Norm (W.S.) Spline 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 IV Norm (W.S.) Linear 5.2 21.7 20.8 5.1 4.7 44.1 55.3 53.2 14.1 12.6 III T (W.S.) Linear 4.6 20.0 19.9 4.9 4.5 11.5 65.7 65.4 10.2 9.2 III T (W.S.) Spline 4.8 24.8 26.9 5.2 5.2 5.2 6.8 62.5 63.7 6.0 5.5 IV T (W.S.) Spline 4.8 24.8 26.9 5.2 5.2 5.0 62.6 63.9 6.0 5.5 IV T (W.S.) Spline 4.8 24.8 26.9 5.2 5.2 5.0 60.6 63.9 6.0 5.5 IV T (W.S.) Spline 4.8 9.3 1.2 4.8 2.9 51.8 72.8 28.5 51.6 40.2 IV T (W.S.) Spline 4.8 9.3 1.2 4.8 2.9 51.9 72.9 28.6 51.6 40.2 IV T (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 50.7 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.0 100.0 100.0 47.2 46.4 III Chisq 4 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.	III	Beta(1,20)	Linear	4.0	94.9	94.9	3.5	3.5	0.0	100.0	100.0	0.0	0.0
Norm (W.S.) Linear Linea	III	Beta(1,20)	Spline	4.5	94.9	94.9	3.5	3.5	0.0	100.0	100.0	0.0	0.0
Norm (W.S.) Linear 5.0 5.0 5.9 5.0 4.5 50.6 50.6 52.1 50.7 49.6	IV	Beta(1,20)	Linear	4.4	56.9		4.8	2.5	1.2	100.0		0.5	0.0
II	IV	Beta(1,20)	Spline	5.0	56.9		4.8	2.5	2.0	100.0		0.5	0.0
II	I	Norm (W.S.)	Linear	5.0	5.0	5.9	5.0	4.5	50.6	50.6	52.1	50.7	49.6
III Norm (W.S.) Linear 4.9 5.2 5.5 4.9 4.7 44.2 60.2 59.3 43.5 43.0 III Norm (W.S.) Spline 4.9 5.2 5.4 4.9 4.7 44.4 60.6 59.7 43.5 43.0 IV Norm (W.S.) Linear 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 IV Norm (W.S.) Spline 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 IV Norm (W.S.) Spline 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 IV T (W.S.) Linear 4.6 20.0 19.9 4.9 4.5 11.5 65.7 65.4 10.2 9.2 III T (W.S.) Spline 4.5 20.2 20.1 4.9 4.5 11.5 65.7 65.4 10.2 9.2 III T (W.S.) Spline 4.5 20.2 20.1 4.9 4.5 12.0 65.7 65.4 10.2 9.2 III T (W.S.) Spline 4.8 24.8 26.9 5.2 5.2 5.2 6.8 62.5 63.7 60.0 5.5 IV T (W.S.) Spline 4.8 24.8 26.9 5.2 5.2 5.2 5.2 6.8 62.5 63.7 60.0 5.5 IV T (W.S.) Spline 4.8 9.3 1.2 4.8 2.9 51.8 72.8 28.5 51.6 40.2 IV T (W.S.) Spline 4.8 9.3 1.2 4.8 2.9 51.9 72.9 28.6 51.6 40.2 IV T (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 50.7 100.0 100.0 50.6 49.6 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.6 48.6 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Spline 4.8 92.6 92.6 5.0 4.6 48.6 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Spline 5.0 94.9 94.9 5.0 4.8 44.0 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Spline 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Spline 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 27.1 26.5 II Chisq 4 df (W.S.) Spline 5.2 94.9 94.9 5.2 5.0 24.4 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Spline 5.2 94.9 94.9 5.2 5.0 24.4 100.0 100.0 23.6 23.2 IV Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.4	II	Norm (W.S.)	Linear	4.9	5.2	5.3	4.9	4.6	48.4	63.9	62.9	47.3	46.6
III Norm (W.S.) Spline 4.9 5.2 5.4 4.9 4.7 44.4 60.6 59.7 43.5 43.0 IV Norm (W.S.) Linear 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 IV Norm (W.S.) Spline 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 IV Norm (W.S.) Spline 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 IV T (W.S.) Linear 5.2 21.7 20.8 5.1 4.7 14.1 55.3 53.2 14.1 12.6 II T (W.S.) Linear 4.6 20.0 19.9 4.9 4.5 11.5 65.7 65.4 10.2 9.2 III T (W.S.) Spline 4.5 20.2 20.1 4.9 4.5 12.0 65.7 65.4 10.2 9.2 III T (W.S.) Linear 4.9 24.7 26.8 5.2 5.2 6.8 62.5 63.7 6.0 5.5 III T (W.S.) Spline 4.8 24.8 26.9 5.2 5.2 7.0 62.6 63.9 6.0 5.5 IV T (W.S.) Linear 4.8 9.3 1.2 4.8 2.9 51.8 72.8 28.5 51.6 40.2 IV T (W.S.) Spline 4.8 9.3 1.2 4.8 2.9 51.9 72.9 28.6 51.6 40.2 IV T (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 50.7 100.0 100.0 50.6 49.6 II Chisq 1 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.6 48.2 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Spline 4.8 92.6 92.6 5.0 4.6 48.6 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.0 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Spline 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Linear 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 4 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.7 28.0 100.0 100.0 27.1 26.5 II Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 23.6 23.2 III Chisq 4 df (W.S.) Spline 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 23.6 23.2 III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.4 100.0 100.	II	Norm (W.S.)	Spline	4.9		5.3	4.9	4.6	48.8	64.0	63.0	47.3	46.6
IV Norm (W.S.) Linear 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 IV Norm (W.S.) Spline 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 I T (W.S.) Linear 5.2 21.7 20.8 5.1 4.7 14.1 55.3 53.2 14.1 12.6 II T (W.S.) Linear 4.6 20.0 19.9 4.9 4.5 11.5 65.7 65.4 10.2 9.2 III T (W.S.) Spline 4.5 20.2 20.1 4.9 4.5 12.0 65.7 65.4 10.2 9.2 III T (W.S.) Spline 4.8 24.8 26.9 5.2 5.2 6.8 62.5 63.7 6.0 5.5 III T (W.S.) Spline 4.8 24.8 26.9 5.2 5.2 5.2 6.8 62.5 63.7 6.0 5.5 IV T (W.S.) Linear 4.8 9.3 1.2 4.8 2.9 51.8 72.8 28.5 51.6 40.2 IV T (W.S.) Spline 4.8 9.3 1.2 4.8 2.9 51.8 72.9 28.6 51.6 40.2 IV T (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 50.7 100.0 100.0 50.6 49.6 II Chisq 1 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.6 48.2 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.0 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Linear 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 1 df (W.S.) Linear 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 1 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 100.0 27.1 26.5 IV Chisq 4 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 100.0 27.1 26.5 II Chisq 4 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 23.6 23.2 IV Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.4 100.0 100.0 23.6 23.2 IV Chisq 4 df (W.S.)	III	Norm (W.S.)	Linear	4.9	5.2	5.5	4.9	4.7	44.2	60.2	59.3	43.5	43.0
IV Norm (W.S.) Spline 4.8 5.0 2.3 4.8 2.8 71.3 71.8 62.2 71.2 65.3 I T (W.S.)	III	Norm (W.S.)	Spline	4.9	5.2	5.4	4.9	4.7	44.4	60.6	59.7	43.5	43.0
I T (W.S.) Linear 5.2 21.7 20.8 5.1 4.7 14.1 55.3 53.2 14.1 12.6 II T (W.S.) Linear 4.6 20.0 19.9 4.9 4.5 11.5 65.7 65.4 10.2 9.2 II T (W.S.) Spline 4.5 20.2 20.1 4.9 4.5 12.0 65.7 65.4 10.2 9.2 III T (W.S.) Linear 4.9 24.7 26.8 5.2 5.2 6.8 62.5 63.7 60.0 5.5 III T (W.S.) Linear 4.8 9.3 1.2 4.8 2.9 51.8 72.8 28.5 51.6 40.2 IV T (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 50.7 100.0 100.0 50.6 49.6 II Chisq 1 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.6 48.2	IV	Norm (W.S.)	Linear	4.8	5.0	2.3	4.8	2.8	71.3	71.8		71.2	65.3
II		Norm (W.S.)	Spline	4.8	5.0	2.3	4.8	2.8	71.3	71.8	62.2	71.2	65.3
II T (W.S.) Spline 4.5 20.2 20.1 4.9 4.5 12.0 65.7 65.4 10.2 9.2 III T (W.S.) Linear 4.9 24.7 26.8 5.2 5.2 6.8 62.5 63.7 6.0 5.5 III T (W.S.) Spline 4.8 24.8 26.9 5.2 5.2 7.0 62.6 63.9 6.0 5.5 IV T (W.S.) Linear 4.8 9.3 1.2 4.8 2.9 51.8 72.8 28.5 51.6 40.2 IV T (W.S.) Spline 4.8 9.3 1.2 4.8 2.9 51.9 72.9 28.6 51.6 40.2 IV T (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 50.7 100.0 100.0 50.6 49.6 II Chisq 1 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.6 48.2 <td></td> <td>T (W.S.)</td> <td>Linear</td> <td>5.2</td> <td>21.7</td> <td>20.8</td> <td>5.1</td> <td>4.7</td> <td>14.1</td> <td></td> <td></td> <td>14.1</td> <td></td>		T (W.S.)	Linear	5.2	21.7	20.8	5.1	4.7	14.1			14.1	
III	II	T (W.S.)	Linear	4.6	20.0	19.9	4.9	4.5	11.5	65.7	65.4	10.2	9.2
III T (W.S.) Spline 4.8 24.8 26.9 5.2 5.2 7.0 62.6 63.9 6.0 5.5 IV T (W.S.) Linear 4.8 9.3 1.2 4.8 2.9 51.8 72.8 28.5 51.6 40.2 IV T (W.S.) Spline 4.8 9.3 1.2 4.8 2.9 51.9 72.9 28.6 51.6 40.2 I Chisq 1 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 50.7 100.0 100.0 50.6 49.6 II Chisq 1 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.6 48.2 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.0 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 4.8 56.9 4.8 44.2		T (W.S.)	Spline	4.5	20.2	20.1			12.0			10.2	
IV T (W.S.) Linear 4.8 9.3 1.2 4.8 2.9 51.8 72.8 28.5 51.6 40.2 IV T (W.S.) Spline 4.8 9.3 1.2 4.8 2.9 51.9 72.9 28.6 51.6 40.2 I Chisq 1 df (W.S.) Linear 5.0 90.0 5.0 4.5 50.7 100.0 100.0 50.6 49.6 II Chisq 1 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.6 48.2 100.0 100.0 47.2 46.4 II Chisq 1 df (W.S.) Spline 4.8 92.6 92.6 5.0 4.6 48.6 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Spline 4.8 56.9 4.8 2.8 71.1<	III	T (W.S.)	Linear	4.9	24.7	26.8	5.2	5.2	6.8	62.5	63.7	6.0	5.5
IV T (W.S.) Spline 4.8 9.3 1.2 4.8 2.9 51.9 72.9 28.6 51.6 40.2 I Chisq 1 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 50.7 100.0 100.0 50.6 49.6 II Chisq 1 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.6 48.2 100.0 100.0 47.2 46.4 II Chisq 1 df (W.S.) Spline 4.8 92.6 92.6 5.0 4.6 48.6 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.0 100.0 100.0 43.2 42.7 III Chisq 1 df (W.S.) Linear 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 1 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.8	III	T (W.S.)	Spline	4.8	24.8	26.9	5.2	5.2	7.0	62.6	63.9	6.0	5.5
I Chisq 1 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 50.7 100.0 100.0 50.6 49.6 II Chisq 1 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.6 48.2 100.0 100.0 47.2 46.4 II Chisq 1 df (W.S.) Spline 4.8 92.6 92.6 5.0 4.6 48.2 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.0 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Spline 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Spline 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 4 df (W.S.) Linear 5.0 90.0 90.0 5.0	IV	T (W.S.)	Linear	4.8	9.3	1.2	4.8	2.9	51.8	72.8	28.5	51.6	40.2
II Chisq 1 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.6 48.2 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Spline 4.8 92.6 92.6 5.0 4.6 48.6 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.0 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Linear 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 1 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 71.0 65.2 IV Chisq 4 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 100.0 29.7 28.7 II Chisq 4 df (W.S.) Spline 4.9 92.6 92.6 5.0 4.7 2		T (W.S.)	Spline	4.8	9.3	1.2	4.8	2.9	51.9	72.9	28.6	51.6	40.2
II Chisq 1 df (W.S.) Spline 4.8 92.6 5.0 4.6 48.6 100.0 100.0 47.2 46.4 III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.0 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Linear 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 1 df (W.S.) Spline 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 1 df (W.S.) Spline 4.8 56.9 4.8 2.8 71.2 100.0 71.0 65.2 IV Chisq 4 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 100.0 29.7 28.7 II Chisq 4 df (W.S.) Spline 4.9 92.6 92.6 5.0 4.7 28.4 100.0 100.0 27.1 2	I	Chisq 1 df (W.S.)	Linear	5.0	90.0	90.0	5.0	4.5	50.7	100.0	100.0	50.6	49.6
III Chisq 1 df (W.S.) Linear 5.0 94.9 94.9 5.0 4.8 44.0 100.0 100.0 43.2 42.7 III Chisq 1 df (W.S.) Spline 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Linear 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 1 df (W.S.) Spline 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 1 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 71.0 65.2 I Chisq 4 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 100.0 29.7 28.7 II Chisq 4 df (W.S.) Spline 4.9 92.6 92.6 5.0 4.7 28.4 100.0 10	II	Chisq 1 df (W.S.)	Linear	4.9	92.6	92.6	5.0	4.6	48.2	100.0	100.0	47.2	46.4
III Chisq 1 df (W.S.) Spline 5.0 94.9 94.9 5.0 4.8 44.2 100.0 100.0 43.2 42.7 IV Chisq 1 df (W.S.) Linear 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 1 df (W.S.) Spline 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 4 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 100.0 29.7 28.7 II Chisq 4 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.7 28.0 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Spline 5.2 94.9 94.9 5.2 5.0 24.3		Chisq 1 df (W.S.)	Spline	4.8	92.6	92.6	5.0		48.6	100.0	100.0		46.4
IV Chisq 1 df (W.S.) Linear 4.8 56.9 4.8 2.8 71.1 100.0 71.0 65.2 IV Chisq 1 df (W.S.) Spline 4.8 56.9 4.8 2.8 71.2 100.0 71.0 65.2 I Chisq 4 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 100.0 29.7 28.7 II Chisq 4 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.7 28.0 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 23.6 23.2 III Chisq 4 df (W.S.) Spline 5.2 94.9 94.9 5.2 5.0 24.4 1	III	Chisq 1 df (W.S.)	Linear	5.0	94.9	94.9	5.0	4.8	44.0	100.0	100.0	43.2	42.7
IV Chisq 1 df (W.S.) Spline 4.8 56.9 4.8 2.8 71.2 100.0 71.0 65.2 I Chisq 4 df (W.S.) Linear 5.0 90.0 90.0 5.0 4.5 29.7 100.0 100.0 29.7 28.7 II Chisq 4 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.7 28.0 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Linear 5.2 94.9 92.6 5.0 4.7 28.4 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 23.6 23.2 III Chisq 4 df (W.S.) Spline 5.2 94.9 94.9 5.2 5.0 24.4 100.0 100.0 23.6 23.2 IV Chisq 4 df (W.S.) Linear 4.7 56.9 57.1 4.7 <td< td=""><td>III</td><td>Chisq 1 df (W.S.)</td><td>Spline</td><td>5.0</td><td>94.9</td><td>94.9</td><td>5.0</td><td>4.8</td><td>44.2</td><td>100.0</td><td>100.0</td><td>43.2</td><td>42.7</td></td<>	III	Chisq 1 df (W.S.)	Spline	5.0	94.9	94.9	5.0	4.8	44.2	100.0	100.0	43.2	42.7
I Chisq 4 df (W.S.) Linear 5.0 90.0 5.0 4.5 29.7 100.0 100.0 29.7 28.7 II Chisq 4 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.7 28.0 100.0 100.0 27.1 26.5 II Chisq 4 df (W.S.) Spline 4.9 92.6 92.6 5.0 4.7 28.4 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 23.6 23.2 III Chisq 4 df (W.S.) Spline 5.2 94.9 94.9 5.2 5.0 24.4 100.0 100.0 23.6 23.2 IV Chisq 4 df (W.S.) Linear 4.7 56.9 57.1 4.7 2.8 51.8 100.0 100.0 51.7 44.8	IV	Chisq 1 df (W.S.)	Linear	4.8	56.9		4.8	2.8	71.1	100.0		71.0	65.2
II Chisq 4 df (W.S.) Linear 4.9 92.6 92.6 5.0 4.7 28.0 100.0 100.0 27.1 26.5 II Chisq 4 df (W.S.) Spline 4.9 92.6 92.6 5.0 4.7 28.4 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 23.6 23.2 IV Chisq 4 df (W.S.) Linear 4.7 56.9 57.1 4.7 2.8 51.8 100.0 100.0 51.7 44.8		Chisq 1 df (W.S.)	Spline	4.8	56.9		4.8	2.8	71.2	100.0		71.0	65.2
II Chisq 4 df (W.S.) Spline 4.9 92.6 92.6 5.0 4.7 28.4 100.0 100.0 27.1 26.5 III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 23.6 23.2 IV Chisq 4 df (W.S.) Linear 4.7 56.9 57.1 4.7 2.8 51.8 100.0 100.0 51.7 44.8	I	Chisq 4 df (W.S.)	Linear	5.0	90.0	90.0	5.0	4.5	29.7	100.0	100.0	29.7	28.7
III Chisq 4 df (W.S.) Linear 5.2 94.9 94.9 5.2 5.0 24.3 100.0 100.0 23.6 23.2 III Chisq 4 df (W.S.) Spline 5.2 94.9 94.9 5.2 5.0 24.4 100.0 100.0 23.6 23.2 IV Chisq 4 df (W.S.) Linear 4.7 56.9 57.1 4.7 2.8 51.8 100.0 100.0 51.7 44.8	II	Chisq 4 df (W.S.)	Linear	4.9	92.6	92.6	5.0	4.7	28.0	100.0	100.0	27.1	26.5
III Chisq 4 df (W.S.) Spline 5.2 94.9 94.9 5.2 5.0 24.4 100.0 100.0 23.6 23.2 IV Chisq 4 df (W.S.) Linear 4.7 56.9 57.1 4.7 2.8 51.8 100.0 100.0 51.7 44.8	II	Chisq 4 df (W.S.)	Spline	4.9	92.6	92.6	5.0	4.7	28.4	100.0	100.0	27.1	26.5
IV Chisq 4 df (W.S.) Linear 4.7 56.9 57.1 4.7 2.8 51.8 100.0 100.0 51.7 44.8	III	Chisq 4 df (W.S.)	Linear	5.2	94.9	94.9	5.2	5.0	24.3	100.0	100.0	23.6	23.2
• ()	III	Chisq 4 df (W.S.)	Spline	5.2	94.9	94.9	5.2	5.0	24.4	100.0	100.0	23.6	23.2
IV Chisq 4 df (W.S.) Spline 4.7 56.9 57.1 4.7 2.8 51.9 100.0 100.0 51.7 44.8	IV	Chisq 4 df (W.S.)	Linear	4.7	56.9	57.1	4.7	2.8	51.8	100.0	100.0	51.7	44.8
	IV	Chisq 4 df (W.S.)	Spline	4.7	56.9	57.1	4.7	2.8	51.9	100.0	100.0	51.7	44.8