

The  $\chi^2$  distribution

<i>d.f.</i>	<i>Area in the Upper tail</i>									
	<b>0.995</b>	<b>0.990</b>	<b>0.975</b>	<b>0.950</b>	<b>0.900</b>	<b>0.10</b>	<b>0.05</b>	<b>0.025</b>	<b>0.01</b>	<b>0.005</b>
<b>1</b>	0.000	0.000	0.001	0.004	0.016	2.706	3.841	5.024	6.635	7.879
<b>2</b>	0.010	0.020	0.051	0.103	0.211	4.605	5.991	7.378	9.210	10.597
<b>3</b>	0.072	0.115	0.216	0.352	0.584	6.251	7.815	9.348	11.345	12.838
<b>4</b>	0.207	0.297	0.484	0.711	1.064	7.779	9.488	11.143	13.277	14.860
<b>5</b>	0.412	0.554	0.831	1.145	1.610	9.236	11.071	12.833	15.086	16.750
<b>6</b>	0.676	0.872	1.237	1.635	2.204	10.645	12.592	14.449	16.812	18.548
<b>7</b>	0.989	1.239	1.690	2.167	2.833	12.017	14.067	16.013	18.475	20.278
<b>8</b>	1.344	1.646	2.180	2.733	3.490	13.362	15.507	17.535	20.090	21.955
<b>9</b>	1.735	2.088	2.700	3.325	4.168	14.684	16.919	19.023	21.666	23.589
<b>10</b>	2.156	2.558	3.247	3.940	4.865	15.987	18.307	20.483	23.209	25.188
<b>11</b>	2.603	3.053	3.816	4.575	5.578	17.275	19.675	21.920	24.725	26.757
<b>12</b>	3.074	3.571	4.404	5.226	6.304	18.549	21.026	23.337	26.217	28.299
<b>13</b>	3.565	4.107	5.009	5.892	7.042	19.812	22.362	24.736	27.688	29.819
<b>14</b>	4.075	4.660	5.629	6.571	7.790	21.064	23.685	26.119	29.141	31.319
<b>15</b>	4.601	5.229	6.262	7.261	8.547	22.307	24.996	27.488	30.578	32.801
<b>16</b>	5.142	5.812	6.908	7.962	9.312	23.542	26.296	28.845	32.000	34.267
<b>17</b>	5.697	6.408	7.564	8.672	10.085	24.769	27.587	30.191	33.409	35.718
<b>18</b>	6.265	7.015	8.231	9.390	10.865	25.989	28.869	31.526	34.805	37.156
<b>19</b>	6.844	7.633	8.907	10.117	11.651	27.204	30.144	32.852	36.191	38.582
<b>20</b>	7.434	8.260	9.591	10.851	12.443	28.412	31.410	34.170	37.566	39.997
<b>21</b>	8.034	8.897	10.283	11.591	13.240	29.615	32.671	35.479	38.932	41.401
<b>22</b>	8.643	9.542	10.982	12.338	14.042	30.813	33.924	36.781	40.289	42.796
<b>23</b>	9.260	10.196	11.689	13.091	14.848	32.007	35.172	38.076	41.638	44.181
<b>24</b>	9.886	10.856	12.401	13.848	15.659	33.196	36.415	39.364	42.980	45.559
<b>25</b>	10.520	11.524	13.120	14.611	16.473	34.382	37.652	40.646	44.314	46.928
<b>26</b>	11.160	12.198	13.844	15.379	17.292	35.563	38.885	41.923	45.642	48.290
<b>27</b>	11.808	12.879	14.573	16.151	18.114	36.741	40.113	43.194	46.963	49.645
<b>28</b>	12.461	13.565	15.308	16.928	18.939	37.916	41.337	44.461	48.278	50.993
<b>29</b>	13.121	14.257	16.047	17.708	19.768	39.087	42.557	45.722	49.588	52.336
<b>30</b>	13.787	14.954	16.791	18.493	20.599	40.256	43.773	46.979	50.892	53.672
<b>40</b>	20.707	22.164	24.433	26.509	29.051	51.805	55.758	59.342	63.691	66.766
<b>50</b>	27.991	29.707	32.357	34.764	37.689	63.167	67.505	71.420	76.154	79.490
<b>60</b>	35.534	37.485	40.482	43.188	46.459	74.397	79.082	83.298	88.379	91.952
<b>70</b>	43.275	45.442	48.758	51.739	55.329	85.527	90.531	95.023	100.425	104.215
<b>80</b>	51.172	53.540	57.153	60.391	64.278	96.578	101.879	106.629	112.329	116.321
<b>90</b>	59.196	61.754	65.647	69.126	73.291	107.565	113.145	118.136	124.116	128.299
<b>100</b>	67.328	70.065	74.222	77.929	82.358	118.498	124.342	129.561	135.807	140.169