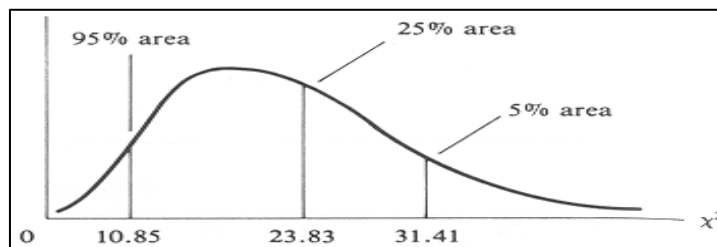


# $\chi^2$ – Verteilung

$\Pr(\chi^2 > 10,85) = 0,95$   
 $\Pr(\chi^2 > 23,83) = 0,25$  für  $df = 20$   
 $\Pr(\chi^2 > 31,41) = 0,05$



df \ Pr	0,995	0,990	9,750	0,950	0,900	0,750	0,500	0,250	0,100	0,050	0,025	0,010	0,005	df
<b>1</b>	3,927E-05	1,570E-04	9,820E-04	3,932E-03	0,0157908	0,1015308	0,454937	1,32330	2,70554	3,84146	5,02389	6,63490	7,87944	<b>1</b>
<b>2</b>	0,0100251	0,0201007	0,0506356	0,102587	0,210720	0,575364	1,38629	2,77259	4,60517	5,99147	7,37776	9,21034	10,5966	<b>2</b>
<b>3</b>	0,0717212	0,114832	0,215795	0,351846	0,584375	1,212534	2,36597	4,10835	6,25139	7,81473	9,34840	11,3449	12,8381	<b>3</b>
<b>4</b>	0,206990	0,297110	0,484419	0,710721	1,063623	1,92255	3,35670	5,38527	7,77944	9,48773	11,1433	13,2767	14,8602	<b>4</b>
<b>5</b>	0,411740	0,554300	0,831211	1,145476	1,61031	2,67460	4,35146	6,62568	9,23635	11,0705	12,8325	15,0863	16,7496	<b>5</b>
<b>6</b>	0,675727	0,872085	1,237347	1,63539	2,20413	3,45460	5,34812	7,84080	10,6446	12,5916	14,4494	16,8119	18,5476	<b>6</b>
<b>7</b>	0,989265	1,239043	1,68987	2,16735	2,83311	4,25485	6,34581	9,03715	12,0170	14,0671	16,0128	18,4753	20,2777	<b>7</b>
<b>8</b>	1,344419	1,646482	2,17973	2,73264	3,48954	5,07064	7,34412	10,2188	13,3616	15,5073	17,5346	20,0902	21,9550	<b>8</b>
<b>9</b>	1,734926	2,087912	2,70039	3,32511	4,16816	5,89883	8,34283	11,3887	14,6837	16,9190	19,0228	21,6660	23,5893	<b>9</b>
<b>10</b>	2,15585	2,55821	3,24697	3,94030	4,86518	6,73720	9,34182	12,5489	15,9871	18,3070	20,4831	23,2093	25,1882	<b>10</b>
<b>11</b>	2,60321	3,05347	3,81575	4,57481	5,57779	7,58412	10,3410	13,7007	17,2750	19,6751	21,9200	24,7250	26,7569	<b>11</b>
<b>12</b>	3,07382	3,57056	4,40379	5,22603	6,30380	8,43842	11,3403	14,8454	18,5494	21,0261	23,3367	26,2170	28,2995	<b>12</b>
<b>13</b>	3,56503	4,10691	5,00874	5,89186	7,04150	9,29906	12,3398	15,9839	19,8119	22,3621	24,7356	27,6883	29,8194	<b>13</b>
<b>14</b>	4,07468	4,66043	5,62872	6,57063	7,78953	10,1653	13,3393	17,1170	21,0642	23,6848	26,1190	29,1413	31,3193	<b>14</b>
<b>15</b>	4,60094	5,22935	6,26214	7,26094	8,54675	11,0365	14,3389	18,2451	22,3072	24,9958	27,4884	30,5779	32,8013	<b>15</b>
<b>16</b>	5,14224	5,81221	6,90766	7,96164	9,31223	11,9122	15,3385	19,3688	23,5418	26,2962	28,8454	31,9999	34,2672	<b>16</b>
<b>17</b>	5,69724	6,40776	7,56418	8,67176	10,0852	12,7919	16,3381	20,4887	24,7690	27,5871	30,1910	33,4087	35,7185	<b>17</b>
<b>18</b>	6,26481	7,01491	8,23075	9,39046	10,8649	13,6753	17,3379	21,6049	25,9894	28,8693	31,5264	34,8053	37,1564	<b>18</b>
<b>19</b>	6,84398	7,63273	8,90655	10,1170	11,6509	14,5620	18,3376	22,7178	27,2036	30,1435	32,8523	36,1908	38,5822	<b>19</b>
<b>20</b>	7,43386	8,26040	9,59083	10,8508	12,4426	15,4518	19,3374	23,8277	28,4120	31,4104	34,1696	37,5662	39,9968	<b>20</b>

$\chi^2$ -Verteilung Fortsetzung

df \ Pr	0,995	0,990	0,9750	0,950	0,900	0,750	0,500	0,250	0,100	0,050	0,025	0,010	0,005	df
<b>21</b>	8,03366	8,89720	10,28293	11,5913	13,2396	16,3444	20,3372	24,9348	29,6151	32,6705	35,4789	38,9321	41,4010	<b>21</b>
<b>22</b>	8,64272	9,54249	10,9823	12,3380	14,0415	17,2396	21,3370	26,0393	30,8133	33,9244	36,7807	40,2894	42,7956	<b>22</b>
<b>23</b>	9,26042	10,19567	11,6885	13,0905	14,8479	18,1373	22,3369	27,1413	32,0069	35,1725	38,0757	41,6384	44,1813	<b>23</b>
<b>24</b>	9,88623	10,8564	12,4011	13,8484	15,6587	19,0372	23,3367	28,2412	33,1963	36,4151	39,3641	42,9798	45,5585	<b>24</b>
<b>25</b>	10,5197	11,5240	13,1197	14,6114	16,4734	19,9393	24,3366	29,3389	34,3816	37,6525	40,6465	44,3141	46,9278	<b>25</b>
<b>26</b>	11,1603	12,1981	13,8439	15,3791	17,2919	20,8434	25,3364	30,4345	35,5631	38,8852	41,9232	45,6417	48,2899	<b>26</b>
<b>27</b>	11,8076	12,8786	14,5733	16,1513	18,1138	21,7494	26,3363	31,5284	36,7412	40,1133	43,1944	46,9630	49,6449	<b>27</b>
<b>28</b>	12,4613	13,5648	15,3079	16,9279	18,9392	22,6572	27,3363	32,6205	37,9159	41,3372	44,4607	48,2782	50,9933	<b>28</b>
<b>29</b>	13,1211	14,2565	16,0471	17,7083	19,7677	23,5666	28,3362	33,7109	39,0875	42,5569	45,7222	49,5879	52,3356	<b>29</b>
<b>30</b>	13,7867	14,9535	16,7908	18,4926	20,5992	24,4776	29,3360	34,7998	40,2560	43,7729	46,9792	50,8922	53,6720	<b>30</b>
<b>40</b>	20,7065	22,1643	24,4331	26,5093	29,0505	33,6603	39,3354	45,6160	51,8050	55,7585	59,3417	63,6907	66,7659	<b>40</b>
<b>50</b>	27,9907	29,7067	32,3574	34,7642	37,6886	42,9421	49,3349	56,3336	63,1671	67,5048	71,4202	76,1539	79,4900	<b>50</b>
<b>60</b>	35,5346	37,4848	40,4817	43,1879	46,4589	52,2938	59,3347	66,9814	74,3970	79,0819	83,2976	88,3794	91,9517	<b>60</b>
<b>70</b>	43,2752	45,4418	48,7576	51,7393	55,3290	61,6983	69,3344	77,5766	85,5271	90,5312	95,0231	100,425	104,215	<b>70</b>
<b>80</b>	51,1720	53,5400	57,1532	60,3915	64,2778	71,1445	79,3343	88,1303	96,5782	101,879	106,629	112,329	116,321	<b>80</b>
<b>90</b>	59,1963	61,7541	65,6466	69,1260	73,2912	80,6247	89,3342	98,6499	107,565	113,145	118,136	124,116	128,299	<b>90</b>
<b>100</b>	67,3276	70,0648	74,2219	77,9295	82,3581	90,1332	99,3341	109,141	118,498	124,342	129,561	135,807	140,169	<b>100</b>
Pr	0,995	0,990	0,9750	0,950	0,900	0,750	0,500	0,250	0,100	0,050	0,025	0,010	0,005	

\*Wenn df (degrees of freedom) grösser als 100 ist, gilt:

$$\sqrt{2\chi^2} - \sqrt{(2k-1)} = Z$$

Wobei k die Freiheitsgrade repräsentiert.

Quelle: Pearson, E. S.; Hartley, H. O.: Biometrika Tables for Statisticians, vol. 1, 3d ed., table 8. Cambridge University Press, New York, 1966.