

Quantile $x_{n;\beta}$ der Chi – Quadrat –Verteilung χ_n

n: Anzahl der Freiheitsgrade

Beispiel: $x_{9;0.95} \approx 16.92$

n	1	2	3	4	5	6	7	8	9	10
β										
0.001	0.00	0.00	0.02	0.09	0.21	0.38	0.60	0.86	1.15	1.48
0.005	0.00	0.01	0.07	0.21	0.41	0.68	0.99	1.34	1.73	2.16
0.01	0.00	0.02	0.11	0.30	0.55	0.87	1.24	1.65	2.09	2.56
0.025	0.00	0.05	0.22	0.48	0.83	1.24	1.69	2.18	2.70	3.25
0.05	0.00	0.10	0.35	0.71	1.15	1.64	2.17	2.73	3.33	3.94
0.1	0.02	0.21	0.58	1.06	1.61	2.20	2.83	3.49	4.17	4.87
0.25	0.10	0.58	1.21	1.92	2.67	3.45	4.25	5.07	5.90	6.74
0.5	0.45	1.39	2.37	3.36	4.35	5.35	6.35	7.34	8.34	9.34
0.75	1.32	2.77	4.11	5.39	6.63	7.84	9.04	10.22	11.39	12.55
0.9	2.71	4.61	6.25	7.78	9.24	10.64	12.02	13.36	14.68	15.99
0.95	3.84	5.99	7.81	9.49	11.07	12.59	14.07	15.51	16.92	18.31
0.975	5.02	7.38	9.35	11.14	12.83	14.45	16.01	17.53	19.02	20.48
0.99	6.63	9.21	11.34	13.28	15.09	16.81	18.48	20.09	21.67	23.21
0.995	7.88	10.60	12.84	14.86	16.75	18.55	20.28	21.96	23.59	25.19
0.999	10.83	13.82	16.27	18.47	20.52	22.46	24.32	26.13	27.88	29.59

n	11	12	13	14	15	16	17	18	19	20
β										
0.001	1.83	2.21	2.62	3.04	3.48	3.94	4.42	4.90	5.41	5.92
0.005	2.60	3.07	3.57	4.07	4.60	5.14	5.70	6.26	6.84	7.43
0.01	3.05	3.57	4.11	4.66	5.23	5.81	6.41	7.01	7.63	8.26
0.025	3.82	4.40	5.01	5.63	6.26	6.91	7.56	8.23	8.91	9.59
0.05	4.57	5.23	5.89	6.57	7.26	7.96	8.67	9.39	10.12	10.85
0.1	5.58	6.30	7.04	7.79	8.55	9.31	10.09	10.86	11.65	12.44
0.25	7.58	8.44	9.30	10.17	11.04	11.91	12.79	13.68	14.56	15.45
0.5	10.34	11.34	12.34	13.34	14.34	15.34	16.34	17.34	18.34	19.34
0.75	13.70	14.85	15.98	17.12	18.25	19.37	20.49	21.60	22.72	23.83
0.9	17.28	18.55	19.81	21.06	22.31	23.54	24.77	25.99	27.20	28.41
0.95	19.68	21.03	22.36	23.68	25.00	26.30	27.59	28.87	30.14	31.41
0.975	21.92	23.34	24.74	26.12	27.49	28.85	30.19	31.53	32.85	34.17
0.99	24.73	26.22	27.69	29.14	30.58	32.00	33.41	34.81	36.19	37.57
0.995	26.76	28.30	29.82	31.32	32.80	34.27	35.72	37.16	38.58	40.00
0.999	31.26	32.91	34.53	36.12	37.70	39.25	40.79	42.31	43.82	45.32

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Fortsetzung

n	21	22	23	24	25	26	27	28	29	30
β										
0.001	6.4	7.0	7.5	8.1	8.7	9.2	9.8	10.4	11.0	11.6
0.005	8.0	8.6	9.3	9.9	10.5	11.2	11.8	12.5	13.1	13.8
0.01	8.9	9.5	10.2	10.9	11.5	12.2	12.9	13.6	14.3	15.0
0.025	10.3	11.0	11.7	12.4	13.1	13.8	14.6	15.3	16.0	16.8
0.05	11.6	12.3	13.1	13.8	14.6	15.4	16.2	16.9	17.7	18.5
0.1	13.2	14.0	14.8	15.7	16.5	17.3	18.1	18.9	19.8	20.6
0.25	16.3	17.2	18.1	19.0	19.9	20.8	21.7	22.7	23.6	24.5
0.5	20.3	21.3	22.3	23.3	24.3	25.3	26.3	27.3	28.3	29.3
0.75	24.9	26.0	27.1	28.2	29.3	30.4	31.5	32.6	33.7	34.8
0.9	29.6	30.8	32.0	33.2	34.4	35.6	36.7	37.9	39.1	40.3
0.95	32.7	33.9	35.2	36.4	37.7	38.9	40.1	41.3	42.6	43.8
0.975	35.5	36.8	38.1	39.4	40.6	41.9	43.2	44.5	45.7	47.0
0.99	38.9	40.3	41.6	43.0	44.3	45.6	47.0	48.3	49.6	50.9
0.995	41.4	42.8	44.2	45.6	46.9	48.3	49.6	51.0	52.3	53.7
0.999	46.8	48.3	49.7	51.2	52.6	54.1	55.5	56.9	58.3	59.7

n	40	50	60	70	80	90	100	> 100 (Näherung)
β								
0.001	17.9	24.7	31.7	39.0	46.5	54.2	61.9	$\frac{1}{2}(h - 3.09)^2$
0.005	20.7	28.0	35.5	43.3	51.2	59.2	67.3	$\frac{1}{2}(h - 2.58)^2$
0.01	22.2	29.7	37.5	45.4	53.5	61.8	70.1	$\frac{1}{2}(h - 2.33)^2$
0.025	24.4	32.4	40.5	48.8	57.2	65.6	74.2	$\frac{1}{2}(h - 1.96)^2$
0.05	26.5	34.8	43.2	51.7	60.4	69.1	77.9	$\frac{1}{2}(h - 1.64)^2$
0.1	29.1	37.7	46.5	55.3	64.3	73.3	82.4	$\frac{1}{2}(h - 1.28)^2$
0.25	33.7	42.9	52.3	61.7	71.1	80.6	90.1	$\frac{1}{2}(h - 0.67)^2$
0.5	39.3	49.3	59.3	69.3	79.3	89.3	99.3	$\frac{1}{2}h^2$
0.75	45.6	56.3	67.0	77.6	88.1	98.6	109.1	$\frac{1}{2}(h + 0.67)^2$
0.9	51.8	63.2	74.4	85.5	96.6	107.6	118.5	$\frac{1}{2}(h + 1.28)^2$
0.95	55.8	67.5	79.1	90.5	101.9	113.1	124.3	$\frac{1}{2}(h + 1.64)^2$
0.975	59.3	71.4	83.3	95.0	106.6	118.1	129.6	$\frac{1}{2}(h + 1.96)^2$
0.99	63.7	76.2	88.4	100.4	112.3	124.1	135.8	$\frac{1}{2}(h + 2.33)^2$
0.995	66.8	79.5	92.0	104.2	116.3	128.3	140.2	$\frac{1}{2}(h + 2.58)^2$
0.999	73.4	86.7	99.6	112.3	124.8	137.2	149.4	$\frac{1}{2}(h + 3.09)^2$

In der letzten Spalte ist $h = \sqrt{2n - 1}$