

Das Universum in Skalen

	A	B	C	D	E	F
	Z	1/Z	lw	tw	t _{masse}	t _{Univ}
1	1,00E+00	1,00E+00	1,1675E-93	3,894E-102	1,8931E+51	1,89E+51
2	1,06E-01	9,46E+00	1,1039E-92	3,682E-101	2,0022E+50	1,89E+51
3	1,12E-02	8,94E+01	1,0438E-91	3,482E-100	2,1175E+49	1,89E+51
4	1,18E-03	8,45E+02	9,8690E-91	3,2920E-99	2,2395E+48	1,89E+51
5	1,25E-04	7,99E+03	9,3314E-90	3,1126E-98	2,3686E+47	1,89E+51
6	1,32E-05	7,56E+04	8,8231E-89	2,9431E-97	2,5050E+46	1,89E+51
7	1,40E-06	7,15E+05	8,3424E-88	2,7827E-96	2,6494E+45	1,89E+51
8	1,48E-07	6,76E+06	7,8879E-87	2,6311E-95	2,8020E+44	1,89E+51
9	1,57E-08	6,39E+07	7,4582E-86	2,4878E-94	2,9635E+43	1,89E+51
10	1,66E-09	6,04E+08	7,0519E-85	2,3523E-93	3,1342E+42	1,89E+51
11	1,75E-10	5,71E+09	6,6678E-84	2,2241E-92	3,3148E+41	1,89E+51
12	1,85E-11	5,40E+10	6,3045E-83	2,1030E-91	3,5058E+40	1,89E+51
13	1,96E-12	5,11E+11	5,9611E-82	1,9884E-90	3,7077E+39	1,89E+51
14	2,07E-13	4,83E+12	5,6363E-81	1,8801E-89	3,9214E+38	1,89E+51
15	2,19E-14	4,56E+13	5,3293E-80	1,7777E-88	4,1473E+37	1,89E+51
16	2,32E-15	4,32E+14	5,0390E-79	1,6808E-87	4,3863E+36	1,89E+51
17	2,45E-16	4,08E+15	4,7645E-78	1,5893E-86	4,6390E+35	1,89E+51
18	2,59E-17	3,86E+16	4,5049E-77	1,5027E-85	4,9062E+34	1,89E+51
19	2,74E-18	3,65E+17	4,2595E-76	1,4208E-84	5,1889E+33	1,89E+51
20	2,90E-19	3,45E+18	4,0275E-75	1,3434E-83	5,4879E+32	1,89E+51
21	3,07E-20	3,26E+19	3,8081E-74	1,2702E-82	5,8041E+31	1,89E+51
22	3,24E-21	3,08E+20	3,6006E-73	1,2010E-81	6,1385E+30	1,89E+51
23	3,43E-22	2,92E+21	3,4045E-72	1,1356E-80	6,4921E+29	1,89E+51
24	3,63E-23	2,76E+22	3,2190E-71	1,0737E-79	6,8662E+28	1,89E+51
25	3,84E-24	2,61E+23	3,0436E-70	1,0152E-78	7,2618E+27	1,89E+51
26	4,06E-25	2,46E+24	2,8778E-69	9,5994E-78	7,6802E+26	1,89E+51
27	4,29E-26	2,33E+25	2,7210E-68	9,0764E-77	8,1227E+25	1,89E+51
28	4,54E-27	2,20E+26	2,5728E-67	8,5820E-76	8,5907E+24	1,89E+51
29	4,80E-28	2,08E+27	2,4327E-66	8,1145E-75	9,0856E+23	1,89E+51
30	5,08E-29	1,97E+28	2,3001E-65	7,6724E-74	9,6091E+22	1,89E+51
31	5,37E-30	1,86E+29	2,1748E-64	7,2545E-73	1,0163E+22	1,89E+51
32	5,68E-31	1,76E+30	2,0564E-63	6,8593E-72	1,0748E+21	1,89E+51
33	6,00E-32	1,67E+31	1,9443E-62	6,4856E-71	1,1368E+20	1,89E+51
34	6,35E-33	1,57E+32	1,8384E-61	6,1323E-70	1,2022E+19	1,89E+51
35	6,72E-34	1,49E+33	1,7383E-60	5,7982E-69	1,2715E+18	1,89E+51
36	7,10E-35	1,41E+34	1,6436E-59	5,4823E-68	1,3448E+17	1,89E+51
37	7,51E-36	1,33E+35	1,5540E-58	5,1837E-67	1,4223E+16	1,89E+51
38	7,95E-37	1,26E+36	1,4694E-57	4,9013E-66	1,5042E+15	1,89E+51
39	8,40E-38	1,19E+37	1,3893E-56	4,6343E-65	1,5909E+14	1,89E+51
40	8,89E-39	1,13E+38	1,3136E-55	4,3818E-64	1,6825E+13	1,89E+51
41	9,40E-40	1,06E+39	1,2421E-54	4,1431E-63	1,7795E+12	1,89E+51
42	1,05E-41	9,51E+40	1,1104E-52	3,7040E-61	1,9904E+10	1,89E+51
43	1,18E-43	8,50E+42	9,9274E-51	3,3114E-59	2,2264E+08	1,89E+51
44	1,32E-45	7,60E+44	8,8753E-49	2,9605E-57	2,4903E+06	1,89E+51
45	1,47E-47	6,80E+46	7,9346E-47	2,6467E-55	2,7855E+04	1,89E+51

46	1,65E-49	6,08E+48	7,0937E-45	2,3662E-53	3,1158E+02	1,89E+51
47	1,84E-51	5,43E+50	6,3418E-43	2,1154E-51	3,4851E+00	1,89E+51
48	2,06E-53	4,86E+52	5,6697E-41	1,8912E-49	3,8983E-02	1,89E+51
49	2,30E-55	4,34E+54	5,0688E-39	1,6908E-47	4,3605E-04	1,89E+51
50	2,58E-57	3,88E+56	4,5316E-37	1,5116E-45	4,8774E-06	1,89E+51
51	2,88E-59	3,47E+58	4,0513E-35	1,3514E-43	5,4556E-08	1,89E+51
52	3,22E-61	3,10E+60	3,6219E-33	1,2081E-41	6,1024E-10	1,89E+51
53	3,61E-63	2,77E+62	3,2380E-31	1,0801E-39	6,8258E-12	1,89E+51
54	4,03E-65	2,48E+64	2,8949E-29	9,6562E-38	7,6350E-14	1,89E+51
55	4,51E-67	2,22E+66	2,5880E-27	8,6328E-36	8,5401E-16	1,89E+51
56	5,05E-69	1,98E+68	2,3137E-25	7,7178E-34	9,5526E-18	1,89E+51
57	5,64E-71	1,77E+70	2,0685E-23	6,8998E-32	1,0685E-19	1,89E+51
58	6,31E-73	1,58E+72	1,8493E-21	6,1686E-30	1,1952E-21	1,89E+51
59	7,06E-75	1,42E+74	1,6533E-19	5,5148E-28	1,3369E-23	1,89E+51
60	7,90E-77	1,27E+76	1,4781E-17	4,9303E-26	1,4953E-25	1,89E+51
61	8,84E-79	1,13E+78	1,3214E-15	4,4077E-24	1,6726E-27	1,89E+51
62	1,11E-82	9,05E+81	1,0562E-11	3,5229E-20	2,0927E-31	1,89E+51
63	1,38E-86	7,23E+85	8,4414E-08	2,8158E-16	2,6183E-35	1,89E+51
64	1,73E-90	5,78E+89	6,7469E-04	2,2505E-12	3,2759E-39	1,89E+51
65	2,17E-94	4,62E+93	5,3925E+00	1,7988E-08	4,0987E-43	1,89E+51
66	2,71E-98	3,69E+97	4,3101E+04	1,4377E-04	5,1281E-47	1,89E+51
67	3,39E-102	2,95E+101	3,4449E+08	1,1491E+00	6,4160E-51	1,89E+51
68	4,24E-106	2,36E+105	2,7533E+12	9,1842E+03	8,0274E-55	1,89E+51
69	5,31E-110	1,88E+109	2,2006E+16	7,3406E+07	1,0044E-58	1,89E+51
70	6,64E-114	1,51E+113	1,7589E+20	5,8670E+11	1,2566E-62	1,89E+51
71	8,30E-118	1,20E+117	1,4058E+24	4,6893E+15	1,5722E-66	1,89E+51
72	1,04E-121	9,62E+120	1,1236E+28	3,7480E+19	1,9671E-70	1,89E+51
73	1,30E-125	7,69E+124	8,9806E+31	2,9956E+23	2,4611E-74	1,89E+51
74	1,63E-129	6,15E+128	7,1778E+35	2,3943E+27	3,0792E-78	1,89E+51
75	2,04E-133	4,91E+132	5,7370E+39	1,9136E+31	3,8526E-82	1,89E+51
76	2,55E-137	3,93E+136	4,5853E+43	1,5295E+35	4,8202E-86	1,89E+51
77	3,19E-141	3,14E+140	3,6649E+47	1,2225E+39	6,0308E-90	1,89E+51
78	3,99E-145	2,51E+144	2,9292E+51	9,7708E+42	7,5455E-94	1,89E+51
79	4,99E-149	2,01E+148	2,3412E+55	7,8094E+46	9,4405E-98	1,89E+51
80	6,24E-153	1,60E+152	1,8712E+59	6,2418E+50	1,1812E-101	1,89E+51
81	7,81E-157	1,28E+156	1,4956E+63	4,9888E+54	1,4778E-105	1,89E+51
82	1,22E-164	8,18E+163	9,5542E+70	3,1869E+62	2,3133E-113	1,89E+51
83	1,91E-172	5,23E+171	6,1034E+78	2,0359E+70	3,6213E-121	1,89E+51
84	2,99E-180	3,34E+179	3,8990E+86	1,3006E+78	5,6687E-129	1,89E+51
85	4,69E-188	2,13E+187	2,4907E+94	8,3082E+85	8,8737E-137	1,89E+51
86	7,34E-196	1,36E+195	1,5911E+102	5,3075E+93	1,3891E-144	1,89E+51
87	1,15E-203	8,71E+202	1,0164E+110	3,391E+101	2,1745E-152	1,89E+51
88	1,80E-211	5,56E+210	6,4933E+117	2,166E+109	3,4039E-160	1,89E+51
89	2,81E-219	3,55E+218	4,1480E+125	1,384E+117	5,3284E-168	1,89E+51
90	4,41E-227	2,27E+226	2,6498E+133	8,839E+124	8,3410E-176	1,89E+51
91	6,90E-235	1,45E+234	1,6928E+141	5,646E+132	1,3057E-183	1,89E+51

Gesamtuniversum

1,72E+53

Z	Zahl
1/Z	Reziproke Zahl

l_w	Wellenlänge	in m
t_w	Zeit Wellenlänge	in s
t_{masse}	Teilmasse	in kg
t_{Univ}	Teiluniversum	in kg