

bar. Masse kg	E. Radius m	E. Radius kpc	Volumen	Masse kg	m. Radius m	O. Radius kpc	O. Radius m	Faktor	x hoch n	Int. Masse kg	v rot. E	Z. Masse	v rot. G	v rot. ges.	O. Radius kpc	Dichte
2,93800E+58	9,48898E+22	3075,13005	2,93800E+58	2,93800E+58	9,48898E+22	1	3,08568E+19	0,57000	0,10208	2,24990E+40	1,54222E+03	2,24990E+40	2,20602E+05	2,22144E+05	1	1,14869E-21
2,18900E+42	9,48898E+22	3075,13005	2,35040E+59	2,18900E+42	9,48898E+22	2	6,11738E+19	0,53000	0,02046	4,47944E+40	3,09845E+03	4,47944E+40	2,20102E+05	2,23200E+05	2	2,85873E-22
7,93260E+59	9,48898E+22	3075,13005	7,93260E+59	7,93260E+59	9,48898E+22	3	9,25703E+19	0,50000	0,03123	6,83714E+40	4,56748E+03	6,83714E+40	2,22026E+05	2,25993E+05	3	1,29286E-22
G. Radius m	G. Radius kpc		1,88032E+60	2,18900E+42	9,48898E+22	4	1,23427E+20	0,48000	0,04119	9,01696E+40	6,15699E+03	9,01696E+40	2,20814E+05	2,26971E+05	4	7,19316E-23
3,67250E+60	2,18900E+42	9,48898E+22	3,67250E+60	3,67250E+60	9,48898E+22	5	1,54284E+20	0,47000	0,04889	1,07020E+41	8,10566E+03	1,07020E+41	2,15167E+05	2,23727E+05	5	4,37115E-23
5,34908E+60	2,18900E+42	9,48898E+22	5,34908E+60	5,34908E+60	9,48898E+22	6	1,85141E+20	0,45000	0,06034	1,23029E+41	9,45662E+03	1,23029E+41	2,18217E+05	2,27674E+05	6	3,12220E-23
1,00773E+61	2,18900E+42	9,48898E+22	1,00773E+61	1,00773E+61	9,48898E+22	7	2,15997E+20	0,44000	0,08874	1,39435E+41	1,12899E+04	1,39435E+41	2,15625E+05	2,29392E+05	7	2,23865E-23
1,50428E+61	2,18900E+42	9,48898E+22	1,50428E+61	1,50428E+61	9,48898E+22	8	2,48854E+20	0,43000	0,07737	1,69335E+41	1,31128E+04	1,69335E+41	2,13983E+05	2,27095E+05	8	1,68874E-23
2,14180E+61	2,18900E+42	9,48898E+22	2,14180E+61	2,14180E+61	9,48898E+22	9	2,77711E+20	0,42000	0,08627	1,88853E+41	1,48823E+04	1,88853E+41	2,13043E+05	2,27929E+05	9	1,32263E-23
2,93800E+61	2,18900E+42	9,48898E+22	2,93800E+61	2,93800E+61	9,48898E+22	10	3,08568E+20	0,41000	0,09549	2,09036E+41	1,65992E+04	2,09036E+41	2,12636E+05	2,29236E+05	10	1,06724E-23
3,91048E+61	2,18900E+42	9,48898E+22	3,91048E+61	3,91048E+61	9,48898E+22	11	3,39425E+20	0,40000	0,10505	2,29963E+41	1,82573E+04	2,29963E+41	2,12647E+05	2,30900E+05	11	8,82102E-24
5,07686E+61	2,18900E+42	9,48898E+22	5,07686E+61	5,07686E+61	9,48898E+22	12	3,70281E+20	0,40000	0,10877	2,38107E+41	2,09945E+04	2,38107E+41	2,03594E+05	2,24579E+05	12	7,03507E-24
6,45479E+61	2,18900E+42	9,48898E+22	6,45479E+61	6,45479E+61	9,48898E+22	13	4,01138E+20	0,40000	0,11251	2,46954E+41	2,38516E+04	2,46954E+41	1,95607E+05	2,19436E+05	13	5,71330E-24
S. Radius m	min. Masse kg	S. Radius kpc	8,06187E+61	2,18900E+42	9,48898E+22	14	4,31995E+20	0,40000	0,11569	2,53251E+41	2,68543E+04	2,53251E+41	1,88491E+05	2,15348E+05	14	4,71202E-24
9,15756E+61	2,18900E+42	9,48898E+22	9,15756E+61	9,15756E+61	9,48898E+22	15	4,62825E+20	0,40000	0,11893	2,60338E+41	2,99885E+04	2,60338E+41	1,82100E+05	2,12089E+05	15	3,93824E-24
1,20340E+62	2,18900E+42	9,48898E+22	1,20340E+62	1,20340E+62	9,48898E+22	16	4,93708E+20	0,40000	0,12204	2,67148E+41	3,32507E+04	2,67148E+41	1,76318E+05	2,09958E+05	16	3,23987E-24
1,44344E+62	2,18900E+42	9,48898E+22	1,44344E+62	1,44344E+62	9,48898E+22	17	5,24565E+20	0,40000	0,12504	2,73703E+41	3,66376E+04	2,73703E+41	1,71053E+05	2,07691E+05	17	2,84282E-24
1,71344E+62	2,18900E+42	9,48898E+22	1,71344E+62	1,71344E+62	9,48898E+22	18	5,55422E+20	0,40000	0,12793	2,80033E+41	4,01462E+04	2,80033E+41	1,66234E+05	2,06390E+05	18	2,45150E-24
2,01517E+62	2,18900E+42	9,48898E+22	2,01517E+62	2,01517E+62	9,48898E+22	19	5,86279E+20	0,40000	0,13072	2,86155E+41	4,37738E+04	2,86155E+41	1,61800E+05	2,05545E+05	19	2,13000E-25
2,35040E+62	2,18900E+42	9,48898E+22	2,35040E+62	2,35040E+62	9,48898E+22	20	6,17138E+20	0,40000	0,13343	2,92028E+41	4,75178E+04	2,92028E+41	1,57703E+05	2,05221E+05	20	1,86407E-24
2,72088E+62	2,18900E+42	9,48898E+22	2,72088E+62	2,72088E+62	9,48898E+22	21	6,47992E+20	0,40000	0,13606	2,97843E+41	5,13759E+04	2,97843E+41	1,53903E+05	2,05279E+05	21	1,64199E-24
3,12838E+62	2,18900E+42	9,48898E+22	3,12838E+62	3,12838E+62	9,48898E+22	22	6,78849E+20	0,40000	0,13862	3,03438E+41	5,53458E+04	2,99636E+41	1,50364E+05	2,05710E+05	22	1,45493E-24
3,57466E+62	2,18900E+42	9,48898E+22	3,57466E+62	3,57466E+62	9,48898E+22	23	7,09708E+20	0,40000	0,14111	3,08881E+41	5,94255E+04	2,99636E+41	1,47059E+05	2,06485E+05	23	1,29613E-24
4,06149E+62	2,18900E+42	9,48898E+22	4,06149E+62	4,06149E+62	9,48898E+22	24	7,41426E+20	0,40000	0,14379	3,14375E+41	6,34703E+04	2,99636E+41	1,44054E+05	2,07397E+05	24	1,14035E-24
4,59063E+62	2,18900E+42	9,48898E+22	4,59063E+62	4,59063E+62	9,48898E+22	25	7,73420E+20	0,40000	0,14638	3,19878E+41	6,75096E+04	2,99636E+41	1,41054E+05	2,08691E+05	25	1,04351E-24
5,16383E+62	2,18900E+42	9,48898E+22	5,16383E+62	5,16383E+62	9,48898E+22	26	8,02278E+20	0,40000	0,14820	3,24407E+41	7,23045E+04	2,99636E+41	1,38315E+05	2,10016E+05	26	9,42343E-25
5,78287E+62	2,18900E+42	9,48898E+22	5,78287E+62	5,78287E+62	9,48898E+22	27	8,31333E+20	0,40000	0,15045	3,29341E+41	7,68052E+04	2,99636E+41	1,35729E+05	2,12535E+05	27	8,54268E-25
6,44950E+62	2,18900E+42	9,48898E+22	6,44950E+62	6,44950E+62	9,48898E+22	28	8,63990E+20	0,40000	0,15266	3,34167E+41	8,14069E+04	2,99636E+41	1,33284E+05	2,14690E+05	28	7,77193E-25
7,16549E+62	2,18900E+42	9,48898E+22	7,16549E+62	7,16549E+62	9,48898E+22	29	8,94847E+20	0,40000	0,15482	3,38891E+41	8,61083E+04	2,99636E+41	1,30965E+05	2,17047E+05	29	7,09423E-25
7,93260E+62	2,18900E+42	9,48898E+22	7,93260E+62	7,93260E+62	9,48898E+22	30	9,25703E+20	0,40000	0,15693	3,43518E+41	9,09081E+04	2,99636E+41	1,28764E+05	2,19672E+05	30	6,49596E-25
8,75260E+62	2,18900E+42	9,48898E+22	8,75260E+62	8,75260E+62	9,48898E+22	31	9,56560E+20	0,40000	0,15900	3,48052E+41	9,58948E+04	2,99636E+41	1,26670E+05	2,22475E+05	31	5,96385E-25
9,62724E+62	2,18900E+42	9,48898E+22	9,62724E+62	9,62724E+62	9,48898E+22	32	9,87417E+20	0,40000	0,16103	3,52586E+41	1,00797E+05	2,99636E+41	1,24675E+05	2,25372E+05	32	5,49222E-25
1,05833E+63	2,18900E+42	9,48898E+22	1,05833E+63	1,05833E+63	9,48898E+22	33	1,01827E+21	0,40000	0,16303	3,56987E+41	1,05884E+05	2,99636E+41	1,22727E+05	2,28656E+05	33	5,06995E-25
1,15475E+63	2,18900E+42	9,48898E+22	1,15475E+63	1,15475E+63	9,48898E+22	34	1,04913E+21	0,38000	0,18054	3,60520E+41	1,01496E+05	2,99636E+41	1,20953E+05	2,22448E+05	34	4,51330E-25
1,25976E+63	2,18900E+42	9,48898E+22	1,25976E+63	1,25976E+63	9,48898E+22	35	1,07999E+21	0,38000	0,18254	3,65054E+41	1,06375E+05	2,99636E+41	1,19212E+05	2,25888E+05	35	4,07816E-25
1,37075E+63	2,18900E+42	9,48898E+22	1,37075E+63	1,37075E+63	9,48898E+22	36	1,11084E+21	0,38000	0,18450	3,69588E+41	1,11343E+05	2,99636E+41	1,17945E+05	2,28888E+05	36	3,71496E-25
1,48819E+63	2,18900E+42	9,48898E+22	1,48819E+63	1,48819E+63	9,48898E+22	37	1,14170E+21	0,37000	0,18646	3,74052E+41	1,16385E+05	2,99636E+41	1,15948E+05	2,32475E+05	37	3,39937E-25
1,61214E+63	2,18900E+42	9,48898E+22	1,61214E+63	1,61214E+63	9,48898E+22	38	1,17255E+21	0,36000	0,18841	3,78516E+41	1,21371E+05	2,99636E+41	1,14410E+05	2,35721E+05	38	3,13767E-25
1,74279E+63	2,18900E+42	9,48898E+22	1,74279E+63	1,74279E+63	9,48898E+22	39	1,20341E+21	0,36000	0,20756	3,82980E+41	1,26366E+05	2,99636E+41	1,12334E+05	2,39039E+05	39	3,10160E-25
1,88032E+63	2,18900E+42	9,48898E+22	1,88032E+63	1,88032E+63	9,48898E+22	40	1,23427E+21	0,35000	0,21876	3,87444E+41	1,31355E+05	2,99636E+41	1,11513E+05	2,42448E+05	40	3,28000E-25
2,02490E+63	2,18900E+42	9,48898E+22	2,02490E+63	2,02490E+63	9,48898E+22	41	1,26513E+21	0,34000	0,23039	3,91908E+41	1,36345E+05	2,99636E+41	1,10145E+05	2,45798E+05	41	3,73600E-25
2,17671E+63	2,18900E+42	9,48898E+22	2,17671E+63	2,17671E+63	9,48898E+22	42	1,29598E+21	0,33000	0,24248	3,96372E+41	1,41334E+05	2,99636E+41	1,08826E+05	2,49114E+05	42	3,65776E-25
2,33592E+63	2,18900E+42	9,48898E+22	2,33592E+63	2,33592E+63	9,48898E+22	43	1,32684E+21	0,33000	0,24447	4,00836E+41	1,46323E+05	2,99636E+41	1,07535E+05	2,52448E+05	43	3,43502E-25
2,50271E+63	2,18900E+42	9,48898E+22	2,50271E+63	2,50271E+63	9,48898E+22	44	1,35770E+21	0,32000	0,25691	4,05290E+41	1,51312E+05	2,99636E+41	1,06334E+05	2,55772E+05	44	3,23767E-25
2,67725E+63	2,18900E+42	9,48898E+22	2,67725E+63	2,67725E+63	9,48898E+22	45	1,38855E+21	0,31000	0,26993	4,09744E+41	1,56291E+05	2,99636E+41	1,05135E+05	2,59040E+05	45	3,10505E-25
2,85973E+63	2,18900E+42	9,48898E+22	2,85973E+63	2,85973E+63	9,48898E+22</											