

bar. Masse	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
6,07387E+41	4,99832E+22	1619,84460	2,93000E+58	6,07387E+41	4,99832E+22	1	3,08568E+19	0,80000	0,00271	1,64394E+39	2,11068E+04	1,64394E+39	5,96308E+04	8,07375E+04	1	8,30317E-23
			2,35040E+59	6,07387E+41	4,99832E+22	2	6,11738E+19	0,60000	0,01799	1,09244E+40	1,27048E+04	1,09244E+40	1,08696E+05	1,14000E+05	2	6,97186E-23
			7,93260E+59	6,07387E+41	4,99832E+22	3	9,25703E+19	0,40000	0,08073	4,90371E+40	6,36835E+03	4,90371E+40	1,88031E+05	1,94399E+05	3	9,27257E-23
	G. Radius m	G. Radius kpc	1,88032E+60	6,07387E+41	4,99832E+22	4	1,23427E+20	0,30000	0,16511	1,00286E+41	5,53589E+03	1,00286E+41	2,32872E+05	2,38480E+05	4	8,00020E-23
			3,67205E+60	6,07387E+41	4,99832E+22	5	1,54284E+20	0,20000	0,31470	1,91146E+41	4,53820E+03	1,91146E+41	2,87557E+05	2,92098E+05	5	7,80718E-23
			5,34908E+60	6,07387E+41	4,99832E+22	6	1,85141E+20	0,15000	0,43182	2,62281E+41	4,76260E+03	2,62281E+41	3,07493E+05	3,12255E+05	6	6,19945E-23
			1,00773E+61	6,07387E+41	4,99832E+22	7	2,16787E+20	0,10000	0,55303	3,52926E+41	4,01137E+03	3,52926E+41	3,52926E+05	3,52926E+05	7	5,00000E-23
			1,50428E+61	6,07387E+41	4,99832E+22	8	2,46854E+20	0,10000	0,58798	3,57131E+41	6,21816E+03	3,52926E+41	3,08671E+05	3,14898E+05	8	3,56120E-23
			2,14180E+61	6,07387E+41	4,99832E+22	9	2,77711E+20	0,10000	0,59495	3,61362E+41	7,77770E+03	3,52926E+41	2,91018E+05	2,98979E+05	9	2,53078E-23
			2,93800E+61	6,07387E+41	4,99832E+22	10	3,08568E+20	0,10000	0,60125	3,65189E+41	9,50147E+03	3,52926E+41	2,76084E+05	2,85585E+05	10	1,86448E-23
			3,91048E+61	6,07387E+41	4,99832E+22	11	3,39425E+20	0,10000	0,60700	3,68687E+41	1,13877E+04	3,52926E+41	2,63236E+05	2,74623E+05	11	1,41423E-23
			5,07686E+61	6,07387E+41	4,99832E+22	12	3,70261E+20	0,10000	0,61231	3,71909E+41	1,34349E+04	3,52926E+41	2,52029E+05	2,65494E+05	12	1,09895E-23
			6,45479E+61	6,07387E+41	4,99832E+22	13	4,01138E+20	0,10000	0,61723	3,74897E+41	1,56417E+04	3,52926E+41	2,42141E+05	2,57378E+05	13	8,71209E-24
			8,06187E+61	6,07387E+41	4,99832E+22	14	4,31995E+20	0,10000	0,62182	3,77889E+41	1,80067E+04	3,52926E+41	2,33333E+05	2,51340E+05	14	7,02728E-24
			9,91575E+61	6,07387E+41	4,99832E+22	15	4,62825E+20	0,10000	0,62613	3,80301E+41	2,05288E+04	3,52926E+41	2,25421E+05	2,45995E+05	15	5,75298E-24
			1,20340E+62	6,07387E+41	4,99832E+22	16	4,93708E+20	0,10000	0,63018	3,82763E+41	2,32070E+04	3,52926E+41	2,18263E+05	2,41470E+05	16	4,77010E-24
			1,44344E+62	6,07387E+41	4,99832E+22	17	5,24565E+20	0,10000	0,63401	3,85091E+41	2,60402E+04	3,52926E+41	2,11747E+05	2,37787E+05	17	4,00180E-24
			1,71344E+62	6,07387E+41	4,99832E+22	18	5,55422E+20	0,10000	0,63765	3,87298E+41	2,90274E+04	3,52926E+41	2,05781E+05	2,34980E+05	18	3,39035E-24
			2,01517E+62	6,07387E+41	4,99832E+22	19	5,86279E+20	0,10000	0,64110	3,89393E+41	3,21951E+04	3,52926E+41	2,00297E+05	2,32460E+05	19	2,89495E-24
			2,35940E+62	6,07387E+41	4,99832E+22	20	6,17133E+20	0,10000	0,64449	3,91490E+41	3,54697E+04	3,52926E+41	1,95231E+05	2,30383E+05	20	2,49370E-24
			2,72088E+62	6,07387E+41	4,99832E+22	21	6,47992E+20	0,10000	0,64755	3,93315E+41	3,89052E+04	3,52926E+41	1,90516E+05	2,28421E+05	21	2,16831E-24
			3,12838E+62	6,07387E+41	4,99832E+22	22	6,78490E+20	0,10000	0,65057	3,95149E+41	4,25005E+04	3,52926E+41	1,86136E+05	2,26396E+05	22	1,89465E-24
			3,57466E+62	6,07387E+41	4,99832E+22	23	7,09706E+20	0,10000	0,65347	3,96900E+41	4,62459E+04	3,52926E+41	1,82044E+05	2,24290E+05	23	1,66551E-24
			4,06149E+62	6,07387E+41	4,99832E+22	24	7,40953E+20	0,10000	0,65626	3,98602E+41	5,01409E+04	3,52926E+41	1,78211E+05	2,22352E+05	24	1,47213E-24
			4,59063E+62	6,07387E+41	4,99832E+22	25	7,71420E+20	0,10000	0,65894	4,00323E+41	5,41847E+04	3,52926E+41	1,74611E+05	2,20795E+05	25	1,30777E-24
			5,16383E+62	6,07387E+41	4,99832E+22	26	8,02278E+20	0,10000	0,66153	4,01805E+41	5,83768E+04	3,52926E+41	1,71220E+05	2,19375E+05	26	1,16717E-24
			5,78287E+62	6,07387E+41	4,99832E+22	27	8,33133E+20	0,10000	0,66403	4,03244E+41	6,27165E+04	3,52926E+41	1,68019E+05	2,18307E+05	27	1,04617E-24
			6,44950E+62	6,07387E+41	4,99832E+22	28	8,63990E+20	0,10000	0,66645	4,04794E+41	6,72034E+04	3,52926E+41	1,64992E+05	2,17395E+05	28	9,41454E-25
			7,16549E+62	6,07387E+41	4,99832E+22	29	8,94847E+20	0,10000	0,66879	4,06271E+41	7,18388E+04	3,52926E+41	1,62122E+05	2,16395E+05	29	8,50381E-25
			7,93260E+62	6,07387E+41	4,99832E+22	30	9,25703E+20	0,10000	0,67107	4,07596E+41	7,66163E+04	3,52926E+41	1,59397E+05	2,15403E+05	30	7,70737E-25
			8,75260E+62	6,07387E+41	4,99832E+22	31	9,56550E+20	0,10000	0,67327	4,08935E+41	8,15415E+04	3,52926E+41	1,56605E+05	2,14434E+05	31	7,00829E-25
			9,62724E+62	6,07387E+41	4,99832E+22	32	9,87411E+20	0,10000	0,67540	4,10289E+41	8,65115E+04	3,52926E+41	1,54336E+05	2,13494E+05	32	6,41655E-25
			1,05583E+63	6,07387E+41	4,99832E+22	33	1,01827E+21	0,10000	0,67749	4,11500E+41	9,15263E+04	3,52926E+41	1,51979E+05	2,12589E+05	33	5,84611E-25
			1,15475E+63	6,07387E+41	4,99832E+22	34	1,04913E+21	0,10000	0,67952	4,12730E+41	9,71853E+04	3,52926E+41	1,49727E+05	2,11691E+05	34	5,36128E-25
			1,25976E+63	6,07387E+41	4,99832E+22	35	1,07999E+21	0,10000	0,68149	4,13928E+41	1,02688E+05	3,52926E+41	1,47573E+05	2,10821E+05	35	4,92902E-25
			1,37075E+63	6,07387E+41	4,99832E+22	36	1,11084E+21	0,10000	0,68341	4,15098E+41	1,08334E+05	3,52926E+41	1,45509E+05	2,10036E+05	36	4,54235E-25
			1,48819E+63	6,07387E+41	4,99832E+22	37	1,14170E+21	0,10000	0,68529	4,16235E+41	1,14122E+05	3,52926E+41	1,43529E+05	2,09344E+05	37	4,19539E-25
			1,61214E+63	6,07387E+41	4,99832E+22	38	1,17256E+21	0,10000	0,68712	4,17355E+41	1,20055E+05	3,52926E+41	1,41626E+05	2,08695E+05	38	3,90219E-25
			1,74279E+63	6,07387E+41	4,99832E+22	39	1,20341E+21	0,10000	0,68890	4,18432E+41	1,26129E+05	3,52926E+41	1,39800E+05	2,08029E+05	39	3,60139E-25
			1,88032E+63	6,07387E+41	4,99832E+22	40	1,23427E+21	0,10000	0,69065	4,19492E+41	1,32344E+05	3,52926E+41	1,38042E+05	2,07388E+05	40	3,34644E-25
			2,02490E+63	6,07387E+41	4,99832E+22	41	1,26513E+21	0,09000	0,71829	4,36278E+41	1,33694E+05	3,52926E+41	1,36348E+05	2,07002E+05	41	3,23185E-25
			2,17617E+63	6,07387E+41	4,99832E+22	42	1,29598E+21	0,08000	0,74662	4,53490E+41	1,34971E+05	3,52926E+41	1,34715E+05	2,06698E+05	42	3,12507E-25
			2,33592E+63	6,07387E+41	4,99832E+22	43	1,32684E+21	0,07000	0,77567	4,71135E+41	1,36176E+05	3,52926E+41	1,33139E+05	2,06315E+05	43	3,02539E-25
			2,50327E+63	6,07387E+41	4,99832E+22	44	1,35770E+21	0,06000	0,80545	4,89220E+41	1,37372E+05	3,52926E+41	1,31618E+05	2,05938E+05	44	2,93215E-25
			2,67725E+63	6,07387E+41	4,99832E+22	45	1,38855E+21	0,05000	0,83596	5,07753E+41	1,38533E+05	3,52926E+41	1,30147E+05	2,05563E+05	45	2,84482E-25
			2,85973E+63	6,07387E+41	4,99832E+22	46	1,41941E+21	0,04000	0,86722	5,26741E+41	1,39693E+05	3,52926E+41	1,28725E+05	2,05191E+05	46	2,76289E-25
			3,05032E+63	6,07387E+41	4,99832E+22	47	1,45027E+21	0,03000	0,89925	5,46191E+41	1,40333E+05	3,52926E+41	1,27348E+05	2,04831E+05	47	2,68950E-25
			3,24919E+63	6,07387E+41	4,99832E+22	48	1,48113E+21	0,02000	0,93204	5,66110E+41	1,41218E+05	3,52926E+41	1,26014E+05	2,04473E+05	48	2,61346E-25
			3,45653E+63	6,07387E+41	4,99832E+22	49	1,51198E+21	0,01000	0,96562	5,86509E+41	1,42046E+05	3,52926E+41	1,24722E+05	2,04076E+05	49	2,54251E-25
			3,67205E+63	6,07387E+41	4,99832E+22	50	1,54284E+21	0,00000	1,00000	6,07387E+41	1,42838E+05	3,52926E+41	1,23488E+05	2,03689E+05	50	2,47251E-25
			3,89729E+63	6,07387E+41	4,99832E+22	51	1,57370E+21	0,00000	0,00000	6,07387E+41	1,43588E+05	3,52926E+41	1,22252E+05	2,03304E+05	51	2,40377E-25
			4,13106E+63	6,07387E+41	4,99832E+22	52	1,60455E+21	0,00000	0,00000	6,07387E+41	1,44347E+05	3,52926E+41	1,21071E+05	2,02934E+05	52	2,33654E