

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
2,4306E+41	3,16192E+22	1024,70989	2,93800E+58	2,4306E+41	3,16192E+22	1	3,08568E+19	0,70000	0,00781	1,88902E+39	1,82814E+04	1,88902E+39	6,40733E+04	1,23546E+04	1	9,60035E-23
			2,35040E+59	2,4306E+41	3,16192E+22	2	6,17139E+19	0,60000	0,02367	5,75411E+39	2,41207E+04	5,75411E+39	7,88862E+04	1,03007E+05	2	3,67221E-23
			7,93260E+59	2,4306E+41	3,16192E+22	3	9,25703E+19	0,50000	0,05411	1,31517E+40	2,37449E+04	1,31517E+40	9,73771E+04	1,12122E+05	3	2,48889E-23
	G. Radius m	G. Radius kpc	1,80320E+60	2,4306E+41	3,16192E+22	4	1,23427E+20	0,40000	0,10879	2,64426E+40	2,09954E+04	2,64426E+40	1,19577E+05	1,40573E+05	4	2,10942E-23
			3,67250E+60	2,4306E+41	3,16192E+22	5	1,54284E+20	0,30000	0,12545	3,04919E+40	2,84488E+04	2,64426E+40	1,06953E+05	1,35402E+05	5	1,24514E-23
			6,34908E+60	2,4306E+41	3,16192E+22	6	1,85141E+20	0,30000	0,14180	3,44659E+40	3,62428E+04	2,64426E+40	9,76345E+04	1,33807E+05	6	8,14655E-24
			1,00773E+61	2,4306E+41	3,16192E+22	7	2,15997E+20	0,37000	0,15804	3,84339E+40	4,42636E+04	2,64426E+40	9,03302E+04	1,34465E+05	7	5,71781E-24
			1,50428E+61	2,4306E+41	3,16192E+22	8	2,46854E+20	0,30000	0,17430	4,23659E+40	5,24170E+04	2,64426E+40	8,45540E+04	1,36971E+05	8	4,22461E-24
			2,14180E+61	2,4306E+41	3,16192E+22	9	2,77711E+20	0,35000	0,19067	4,63442E+40	6,06455E+04	2,64426E+40	7,97183E+04	1,40364E+05	9	3,24569E-24
			2,93800E+61	2,4306E+41	3,16192E+22	10	3,08568E+20	0,30000	0,21702	5,27500E+40	6,57789E+04	2,64426E+40	7,56274E+04	1,41406E+05	10	2,68316E-24
			3,91048E+61	2,4306E+41	3,16192E+22	11	3,39425E+20	0,31000	0,24521	5,96027E+40	7,04414E+04	2,64426E+40	7,21079E+04	1,42549E+05	11	2,28627E-24
			5,07686E+61	2,4306E+41	3,16192E+22	12	3,70282E+20	0,32000	0,27350	6,64354E+40	7,52111E+04	2,64426E+40	6,74222E+04	1,43692E+05	12	1,96031E-24
			6,45479E+61	2,4306E+41	3,16192E+22	13	4,01138E+20	0,24000	0,30559	7,32682E+40	8,01134E+04	2,64426E+40	6,83296E+04	1,45153E+05	13	1,69031E-24
			8,06187E+61	2,4306E+41	3,16192E+22	14	4,31995E+20	0,20000	0,34275	1,02937E+41	8,60296E+04	2,64426E+40	6,39168E+04	1,22947E+05	14	1,41639E-24
			9,91575E+61	2,4306E+41	3,16192E+22	15	4,62852E+20	0,15000	0,38067	1,28986E+41	6,05267E+04	2,64426E+40	6,17495E+04	1,22278E+05	15	1,19512E-24
			1,20340E+62	2,4306E+41	3,16192E+22	16	4,93708E+20	0,10000	0,65941	1,60351E+41	5,53957E+04	2,64426E+40	5,97887E+04	1,15184E+05	16	1,09827E-24
			1,44344E+62	2,4306E+41	3,16192E+22	17	5,24565E+20	0,08000	0,72042	1,75109E+41	5,72662E+04	2,64426E+40	5,80036E+04	1,15270E+05	17	1,18197E-24
			1,71344E+62	2,4306E+41	3,16192E+22	18	5,55422E+20	0,07000	0,75558	1,83167E+41	6,13771E+04	2,64426E+40	5,63693E+04	1,17746E+05	18	1,60350E-24
			8,75260E+62	2,4306E+41	3,16192E+22	19	5,86279E+20	0,05000	0,81923	1,99126E+41	6,29078E+04	2,64426E+40	5,49859E+04	1,17771E+05	19	1,48232E-24
			2,35040E+62	2,4306E+41	3,16192E+22	20	6,17139E+20	0,03000	0,88861	2,15900E+41	6,42592E+04	2,64426E+40	5,34765E+04	1,17739E+05	20	1,37842E-24
			2,72088E+62	2,4306E+41	3,16192E+22	21	6,47992E+20	0,02000	0,92519	2,24881E+41	6,80447E+04	2,64426E+40	5,21878E+04	1,20233E+05	21	1,23975E-24
			3,12838E+62	2,4306E+41	3,16192E+22	22	6,78849E+20	0,01000	0,96232	2,33950E+41	7,17895E+04	2,64426E+40	5,09800E+04	1,22378E+05	22	1,12153E-24
			3,57466E+62	2,4306E+41	3,16192E+22	23	7,09707E+20	0,00000	1,00000	2,4306E+41	7,55168E+04	2,64426E+40	4,98672E+04	1,23584E+05	23	1,01994E-24
			4,06149E+62	2,4306E+41	3,16192E+22	24	7,40565E+20	0,00000	1,00000	2,4306E+41	8,22263E+04	2,64426E+40	4,88173E+04	1,31044E+05	24	8,97690E-25
			4,59063E+62	2,4306E+41	3,16192E+22	25	7,71423E+20	0,00000	1,00000	2,4306E+41	8,92212E+04	2,64426E+40	4,78310E+04	1,37052E+05	25	7,94219E-25
			5,16383E+62	2,4306E+41	3,16192E+22	26	8,02278E+20	0,00000	1,00000	2,4306E+41	9,65017E+04	2,64426E+40	4,69021E+04	1,43046E+05	26	7,06057E-25
			5,78287E+62	2,4306E+41	3,16192E+22	27	8,33133E+20	0,00000	1,00000	2,4306E+41	1,04068E+05	2,64426E+40	4,60254E+04	1,50039E+05	27	6,30476E-25
			6,44950E+62	2,4306E+41	3,16192E+22	28	8,63990E+20	0,00000	1,00000	2,4306E+41	1,11919E+05	2,64426E+40	4,51960E+04	1,57115E+05	28	5,65309E-25
			7,16549E+62	2,4306E+41	3,16192E+22	29	8,94847E+20	0,00000	1,00000	2,4306E+41	1,20056E+05	2,64426E+40	4,44099E+04	1,64409E+05	29	5,08822E-25
			7,93260E+62	2,4306E+41	3,16192E+22	30	9,25707E+20	0,00000	1,00000	2,4306E+41	1,28479E+05	2,64426E+40	4,36635E+04	1,72142E+05	30	4,59617E-25
			8,75260E+62	2,4306E+41	3,16192E+22	31	9,56550E+20	0,00000	1,00000	2,4306E+41	1,37187E+05	2,64426E+40	4,29535E+04	1,80146E+05	31	4,16558E-25
			9,62724E+62	2,4306E+41	3,16192E+22	32	9,87393E+20	0,00000	1,00000	2,4306E+41	1,46277E+05	2,64426E+40	4,22770E+04	1,88457E+05	32	3,76157E-25
			1,05838E+63	2,4306E+41	3,16192E+22	33	1,01827E+21	0,00000	1,00000	2,4306E+41	1,55495E+05	2,64426E+40	4,16315E+04	1,97091E+05	33	3,45317E-25
			1,15475E+63	2,4306E+41	3,16192E+22	34	1,04913E+21	0,00000	1,00000	2,4306E+41	1,65024E+05	2,64426E+40	4,10147E+04	2,06039E+05	34	3,15735E-25
			1,25976E+63	2,4306E+41	3,16192E+22	35	1,07999E+21	0,00000	1,00000	2,4306E+41	1,74874E+05	2,64426E+40	4,04245E+04	2,15289E+05	35	2,89438E-25
			1,37075E+63	2,4306E+41	3,16192E+22	36	1,11084E+21	0,00000	1,00000	2,4306E+41	1,85009E+05	2,64426E+40	3,98991E+04	2,24989E+05	36	2,65982E-25
			1,48819E+63	2,4306E+41	3,16192E+22	37	1,14170E+21	0,00000	1,00000	2,4306E+41	1,95439E+05	2,64426E+40	3,93168E+04	2,34747E+05	37	2,44896E-25
			1,61214E+63	2,4306E+41	3,16192E+22	38	1,17255E+21	0,00000	1,00000	2,4306E+41	2,06129E+05	2,64426E+40	3,87360E+04	2,44633E+05	38	2,24915E-25
			1,74279E+63	2,4306E+41	3,16192E+22	39	1,20341E+21	0,00000	1,00000	2,4306E+41	2,17129E+05	2,64426E+40	3,82545E+04	2,55424E+05	39	2,09202E-25
			1,88032E+63	2,4306E+41	3,16192E+22	40	1,23427E+21	0,00000	1,00000	2,4306E+41	2,28406E+05	2,64426E+40	3,78137E+04	2,66220E+05	40	1,93901E-25
			2,02490E+63	2,4306E+41	3,16192E+22	41	1,26513E+21	0,00000	1,00000	2,4306E+41	2,39969E+05	2,64426E+40	3,73497E+04	2,77319E+05	41	1,80056E-25
			2,17671E+63	2,4306E+41	3,16192E+22	42	1,29598E+21	0,00000	1,00000	2,4306E+41	2,51818E+05	2,64426E+40	3,69024E+04	2,88270E+05	42	1,67499E-25
			2,33932E+63	2,4306E+41	3,16192E+22	43	1,32684E+21	0,00000	1,00000	2,4306E+41	2,63952E+05	2,64426E+40	3,64770E+04	3,00042E+05	43	1,56083E-25
			2,50271E+63	2,4306E+41	3,16192E+22	44	1,35770E+21	0,00000	1,00000	2,4306E+41	2,76372E+05	2,64426E+40	3,60539E+04	3,12426E+05	44	1,45681E-25
			2,67725E+63	2,4306E+41	3,16192E+22	45	1,38855E+21	0,00000	1,00000	2,4306E+41	2,89077E+05	2,64426E+40	3,56511E+04	3,24728E+05	45	1,36183E-25
			2,85973E+63	2,4306E+41	3,16192E+22	46	1,41941E+21	0,00000	1,00000	2,4306E+41	3,02067E+05	2,64426E+40	3,52614E+04	3,37329E+05	46	1,27493E-25
			3,05032E+63	2,4306E+41	3,16192E+22	47	1,45027E+21	0,00000	1,00000	2,4306E+41	3,15344E+05	2,64426E+40	3,48843E+04	3,50228E+05	47	1,19527E-25
			3,24919E+63	2,4306E+41	3,16192E+22	48	1,48113E+21	0,00000	1,00000	2,4306E+41	3,28905E+05	2,64426E+40	3,45190E+04	3,63242E+05	48	1,12211E-25
			3,45653E+63	2,4306E+41	3,16192E+22	49	1,51198E+21	0,00000	1,00000	2,4306E+41	3,42752E+05	2,64426E+40	3,41650E+04	3,76971E+05	49	1,05490E-25
			3,67250E+63	2,4306E+41	3,16192E+22	50	1,54284E+21	0,00000	1,00000	2,4306E+41	3,56885E+05	2,64426E+40	3,38215E+04	3,90707E+05	50	9,74277E-26
			3,89729E+63	2,4306E+41	3,16192E+22	51	1,57370E+21	0,00000	1,00000	2,4306E+41	3,71303E+05	2,64426E+40	3,34884E+04	4,04197E+05	51	9,35512E-26
			4,13106E+63	2,4306E+41	3,16192E+22	52	1,60455E+21	0,00000	1,00000	2,4306E+41	3,86007E+05	2,64426E+40	3,31648E+04	4,19172E+05	52	8,82527E-26
			4,37401E+63	2,4306E+41	3,16192E+22	5										