

bar. Masse kq	E. Radius m	E. Radius kpc	Volumen	Masse kq	m. Radius m	O. Radius kpc	O. Radius kpc	O. Radius m	Faktor	x hoch n	Int. Masse kq	v rot. E	Z. Masse	v rot. G	v rot. ges.	O. Radius kpc	Dichte
2,93800E+68	4,51952E+22	1464,67524	2,93800E+68	4,96594E+41	4,51952E+22	1	3,08658E+19	0,60000	0,01261	6,28975E+39	5,54309E+03	6,28975E+39	1,16380E+05	1,21900E+05	1	3,19592E-22	
4,96594E+41	4,51952E+22		2,35040E+69	4,96594E+41	4,51952E+22	2	6,11738E+19	0,50000	0,03625	1,83504E+40	7,56350E+03	1,83504E+40	1,40875E+05	1,44830E+05	2	1,17101E-22	
7,93260E+69	4,96594E+41		4,96594E+41	4,96594E+41	4,51952E+22	3	9,25703E+19	0,40000	0,05122	2,54389E+40	1,22769E+04	2,54389E+40	1,35425E+05	1,47302E+05	3	8,40994E-23	
	G. Radius m	G. Radius kpc	1,88032E+60	4,96594E+41	4,51952E+22	4	1,23427E+20	0,45000	0,07020	3,48614E+40	1,59252E+04	3,48614E+40	1,37300E+05	1,53225E+05	4	2,78102E-23	
	1,09E+21	35,32451	3,67250E+60	4,96594E+41	4,51952E+22	5	1,54284E+20	0,40000	0,10311	5,12027E+40	1,69417E+04	5,12027E+40	1,48829E+05	1,65771E+05	5	2,04133E-23	
			5,34908E+60	4,96594E+41	4,51952E+22	6	1,85141E+20	0,35000	0,14500	7,25012E+40	1,72236E+04	7,25012E+40	1,35962E+05	1,53091E+05	6	1,71368E-23	
			1,00773E+61	4,96594E+41	4,51952E+22	7	2,15997E+20	0,30000	0,19509	7,65932E+40	2,21932E+04	7,65932E+40	1,25734E+05	1,48003E+05	7	1,33899E-23	
			1,50428E+61	4,96594E+41	4,51952E+22	8	2,46854E+20	0,35000	0,16146	8,01814E+40	2,76959E+04	8,01814E+40	1,17600E+05	1,43355E+05	7	7,99545E-24	
			2,14180E+61	4,96594E+41	4,51952E+22	9	2,77711E+20	0,35000	0,16826	8,35559E+40	3,36370E+04	8,35559E+40	1,10931E+05	1,44568E+05	9	5,85179E-24	
			2,93800E+61	4,96594E+41	4,51952E+22	10	3,08658E+20	0,35000	0,17458	8,66848E+40	4,00237E+04	8,66848E+40	1,05238E+05	1,45262E+05	10	4,42620E-24	
			3,91048E+61	4,96594E+41	4,51952E+22	11	3,39425E+20	0,35000	0,18050	8,96354E+40	4,68398E+04	8,96354E+40	1,00341E+05	1,47180E+05	11	3,43828E-24	
			5,07268E+61	4,96594E+41	4,51952E+22	12	3,70261E+20	0,35000	0,18608	9,24071E+40	5,40712E+04	9,24071E+40	9,60899E+04	1,50140E+05	12	2,73024E-24	
			6,45479E+61	4,96594E+41	4,51952E+22	13	4,01138E+20	0,34000	0,20063	9,96300E+40	5,98890E+04	9,96300E+40	9,23000E+04	1,51158E+05	13	2,31535E-24	
			8,06187E+61	4,96594E+41	4,51952E+22	14	4,31995E+20	0,33000	0,21564	1,07039E+41	6,35383E+04	1,07039E+41	8,89425E+04	1,52481E+05	14	1,90152E-24	
			9,19157E+61	4,96594E+41	4,51952E+22	15	4,62852E+20	0,31000	0,24166	1,20084E+41	6,50551E+04	1,20084E+41	8,50266E+04	1,50982E+05	15	1,61154E-24	
			1,20340E+62	4,96594E+41	4,51952E+22	16	4,93708E+20	0,30000	0,25794	1,28090E+41	6,93480E+04	1,28090E+41	8,31981E+04	1,52548E+05	16	1,58699E-24	
			1,44344E+62	4,96594E+41	4,51952E+22	17	5,24565E+20	0,29000	0,27464	1,36385E+41	7,35258E+04	1,36385E+41	8,07140E+04	1,54204E+05	17	1,41723E-24	
			1,71344E+62	4,96594E+41	4,51952E+22	18	5,56278E+20	0,28000	0,29131	1,44807E+41	7,80971E+04	1,44807E+41	7,63478E+04	1,55871E+05	18	1,19444E-24	
			2,01517E+62	4,96594E+41	4,51952E+22	19	5,88278E+20	0,27000	0,30803	1,53404E+41	8,28921E+04	1,53404E+41	7,83478E+04	1,57561E+05	19	1,08338E-24	
			2,35040E+62	4,96594E+41	4,51952E+22	20	6,17138E+20	0,25000	0,34184	1,69755E+41	8,17608E+04	1,69755E+41	7,44146E+04	1,57105E+05	20	1,08338E-24	
			2,72088E+62	4,96594E+41	4,51952E+22	21	6,47992E+20	0,22000	0,39303	1,95178E+41	7,84009E+04	1,95178E+41	7,26213E+04	1,51022E+05	21	1,07599E-24	
			3,12838E+62	4,96594E+41	4,51952E+22	22	6,78494E+20	0,20000	0,43185	2,14456E+41	7,83099E+04	2,14456E+41	7,09516E+04	1,49261E+05	22	1,02827E-24	
			3,57466E+62	4,96594E+41	4,51952E+22	23	7,09706E+20	0,18000	0,47345	2,35114E+41	7,87022E+04	2,35114E+41	6,93202E+04	1,47462E+05	23	9,86588E-25	
			4,06149E+62	4,96594E+41	4,51952E+22	24	7,40953E+20	0,16000	0,51798	2,57227E+41	7,78998E+04	2,57227E+41	6,79310E+04	1,45630E+05	24	9,49997E-25	
			4,59063E+62	4,96594E+41	4,51952E+22	25	7,71420E+20	0,14000	0,56560	2,80873E+41	7,72111E+04	2,80873E+41	6,65955E+04	1,43770E+05	25	9,17789E-25	
			5,16383E+62	4,96594E+41	4,51952E+22	26	8,02278E+20	0,12000	0,61646	3,06132E+41	7,66207E+04	3,06132E+41	6,52660E+04	1,41987E+05	26	8,89260E-25	
			5,78287E+62	4,96594E+41	4,51952E+22	27	8,33133E+20	0,10000	0,67075	3,33092E+41	7,59404E+04	3,33092E+41	6,40459E+04	1,39985E+05	27	8,63996E-25	
			6,44950E+62	4,96594E+41	4,51952E+22	28	8,63990E+20	0,10000	0,67320	3,34305E+41	8,13733E+04	3,34305E+41	6,28918E+04	1,44265E+05	28	7,77514E-25	
			7,16549E+62	4,96594E+41	4,51952E+22	29	8,94847E+20	0,10000	0,67556	3,35480E+41	8,69837E+04	3,35480E+41	6,17980E+04	1,48782E+05	29	7,02284E-25	
			7,93260E+62	4,96594E+41	4,51952E+22	30	9,25703E+20	0,10000	0,67786	3,36620E+41	9,27709E+04	3,36620E+41	6,07953E+04	1,53530E+05	30	6,36525E-25	
			8,75260E+62	4,96594E+41	4,51952E+22	31	9,56550E+20	0,10000	0,68008	3,37725E+41	9,87345E+04	3,37725E+41	5,97713E+04	1,58505E+05	31	5,78786E-25	
			9,62724E+62	4,96594E+41	4,51952E+22	32	9,87401E+20	0,10000	0,68230	3,38843E+41	1,04874E+05	3,38843E+41	5,88395E+04	1,63470E+05	32	5,29178E-25	
			1,05583E+63	4,96594E+41	4,51952E+22	33	1,01827E+21	0,10000	0,68435	3,39943E+41	1,11188E+05	3,39943E+41	5,79317E+04	1,69120E+05	33	4,82810E-25	
			1,15475E+63	4,96594E+41	4,51952E+22	34	1,04913E+21	0,10000	0,68639	3,40859E+41	1,17677E+05	3,40859E+41	5,70734E+04	1,74702E+05	34	4,42770E-25	
			1,25976E+63	4,96594E+41	4,51952E+22	35	1,07999E+21	0,10000	0,68839	3,41848E+41	1,24340E+05	3,41848E+41	5,62522E+04	1,80592E+05	35	4,07070E-25	
			1,37075E+63	4,96594E+41	4,51952E+22	36	1,11084E+21	0,09000	0,71639	3,57578E+41	1,26440E+05	3,57578E+41	5,54654E+04	1,81870E+05	36	3,89300E-25	
			1,48819E+63	4,96594E+41	4,51952E+22	37	1,14170E+21	0,08000	0,74507	3,69997E+41	1,28365E+05	3,69997E+41	5,47107E+04	1,83399E+05	37	3,72935E-25	
			1,61214E+63	4,96594E+41	4,51952E+22	38	1,17256E+21	0,07000	0,77443	3,82416E+41	1,30290E+05	3,82416E+41	5,39615E+04	1,84939E+05	38	3,57383E-25	
			1,74279E+63	4,96594E+41	4,51952E+22	39	1,20341E+21	0,06000	0,80449	3,94950E+41	1,32104E+05	3,94950E+41	5,32894E+04	1,86394E+05	39	3,43848E-25	
			1,88032E+63	4,96594E+41	4,51952E+22	40	1,23427E+21	0,05000	0,83525	4,14780E+41	1,33948E+05	4,14780E+41	5,26191E+04	1,86476E+05	40	3,30885E-25	
			2,02490E+63	4,96594E+41	4,51952E+22	41	1,26513E+21	0,04000	0,86673	4,30411E+41	1,35517E+05	4,30411E+41	5,19734E+04	1,87490E+05	41	3,18839E-25	
			2,17671E+63	4,96594E+41	4,51952E+22	42	1,29598E+21	0,03000	0,89893	4,46403E+41	1,37114E+05	4,46403E+41	5,13510E+04	1,88468E+05	42	3,07623E-25	
			2,33952E+63	4,96594E+41	4,51952E+22	43	1,32684E+21	0,02000	0,93187	4,62780E+41	1,38640E+05	4,62780E+41	5,07504E+04	1,89391E+05	43	2,97160E-25	
			2,50271E+63	4,96594E+41	4,51952E+22	44	1,35770E+21	0,01000	0,96556	4,79489E+41	1,40199E+05	4,79489E+41	5,01703E+04	1,90370E+05	44	2,87385E-25	
			2,67725E+63	4,96594E+41	4,51952E+22	45	1,38855E+21	0,00000	1,00000	4,96594E+41	1,41492E+05	4,96594E+41	4,96098E+04	1,91102E+05	45	2,78230E-25	
			2,85973E+63	4,96594E+41	4,51952E+22	46	1,41941E+21	0,00000	1,00000	4,96594E+41	1,47851E+05	4,96594E+41	4,90676E+04	1,98919E+05	46	2,60476E-25	
			3,05032E+63	4,96594E+41	4,51952E+22	47	1,45027E+21	0,00000	1,00000	4,96594E+41	1,54349E+05	4,96594E+41	4,85428E+04	2,02891E+05	47	2,44201E-25	
			3,24919E+63	4,96594E+41	4,51952E+22	48	1,48113E+21	0,00000	1,00000	4,96594E+41	1,60987E+05	4,96594E+41	4,80344E+04	2,09021E+05	48	2,29254E-25	
			3,45653E+63	4,96594E+41	4,51952E+22	49	1,51198E+21	0,00000	1,00000	4,96594E+41	1,67764E+05	4,96594E+41	4,75418E+04	2,13308E+05	49	2,15030E-25	
			3,67250E+63	4,96594E+41	4,51952E+22	50	1,54284E+21	0,00000	1,00000	4,96594E+41	1,74623E+05	4,96594E+41	4,70469E+04	2,17466E+05	50	2,01931E-25	
			3,89729E+63	4,96594E+41	4,51952E+22	51	1,57370E+21	0,00000	1,00000	4,96594E+41	1,81739E+05	4,96594E+41	4,66003E+04	2,23039E+05	51	1,91131E-25	
			4,13106E+63	4,96594E+41	4,51952E+22	52	1,60455E+21	0,00000	1,00000	4,96594E+41	1,88						