

| 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 |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|---------|----------|---------------|-------------|-------------|-------------|-------------|---------------|-------------|
| 1,0000E+42 | 6,4134E+22 | 2078,45491 | 2,93800E+68 | 1,00000E+42 | 6,4134E+22 | 1 | 3,08588E+19 | 0,10000 | 0,46583 | 4,65828E+41 | 7,44874E+01 | 4,65828E+41 | 1,00378E+06 | 1,00388E+06 | 1 | 2,37820E-20 |
| | | | 2,35040E+69 | 1,00000E+42 | 6,4134E+22 | 2 | 6,11730E+19 | 0,10000 | 0,49926 | 4,99262E+41 | 2,77997E+02 | 4,65828E+41 | 7,09782E+05 | 7,10006E+05 | 2 | 3,1862E-21 |
| | | | 7,93260E+69 | 1,00000E+42 | 6,4134E+22 | 3 | 9,25703E+19 | 0,10000 | 0,51992 | 5,19922E+41 | 6,00639E+02 | 4,65828E+41 | 5,79534E+05 | 5,80135E+05 | 3 | 9,8313E-22 |
| | G. Radius m | G. Radius kpc | 1,88032E+60 | 1,00000E+42 | 6,4134E+22 | 4 | 1,23427E+20 | 0,10000 | 0,53510 | 5,35096E+41 | 1,03752E+03 | 4,65828E+41 | 5,01892E+05 | 5,02029E+05 | 4 | 4,28866E-22 |
| | | | 3,67250E+60 | 1,00000E+42 | 6,4134E+22 | 5 | 1,54284E+20 | 0,10000 | 0,54717 | 5,47171E+41 | 1,58935E+03 | 4,65828E+41 | 4,48905E+05 | 4,49091E+05 | 5 | 2,23487E-22 |
| | | | 5,34908E+60 | 1,00000E+42 | 6,4134E+22 | 6 | 1,85114E+20 | 0,10000 | 0,55724 | 5,57238E+41 | 2,24166E+03 | 4,65828E+41 | 4,09793E+05 | 4,10304E+05 | 6 | 1,37171E-22 |
| | | | 1,00773E+61 | 1,00000E+42 | 6,4134E+22 | 7 | 2,15997E+20 | 0,10000 | 0,56589 | 5,65895E+41 | 3,00498E+03 | 4,65828E+41 | 3,79384E+05 | 3,79384E+05 | 7 | 8,42328E-23 |
| | | | 1,50428E+61 | 1,00000E+42 | 6,4134E+22 | 8 | 2,48854E+20 | 0,10000 | 0,57350 | 5,73502E+41 | 3,87217E+03 | 4,65828E+41 | 3,54891E+05 | 3,54891E+05 | 8 | 5,71879E-23 |
| | | | 2,14180E+61 | 1,00000E+42 | 6,4134E+22 | 9 | 2,77711E+20 | 0,10000 | 0,58030 | 5,80297E+41 | 4,84333E+03 | 4,65828E+41 | 3,34594E+05 | 3,34394E+05 | 9 | 4,40608E-23 |
| | | | 2,93800E+61 | 1,00000E+42 | 6,4134E+22 | 10 | 3,08588E+20 | 0,10000 | 0,58644 | 5,86434E+41 | 5,91675E+03 | 4,65828E+41 | 3,17424E+05 | 3,17314E+05 | 10 | 2,99409E-23 |
| | | | 3,91048E+61 | 1,00000E+42 | 6,4134E+22 | 11 | 3,39425E+20 | 0,10000 | 0,59206 | 5,92059E+41 | 7,09135E+03 | 4,65828E+41 | 3,02652E+05 | 3,02674E+05 | 11 | 2,27105E-23 |
| | | | 5,07686E+61 | 1,00000E+42 | 6,4134E+22 | 12 | 3,70261E+20 | 0,10000 | 0,59723 | 5,97233E+41 | 8,36918E+03 | 4,65828E+41 | 2,89767E+05 | 2,89133E+05 | 12 | 1,76457E-23 |
| | | | 6,45793E+61 | 1,00000E+42 | 6,4134E+22 | 13 | 4,01138E+20 | 0,10000 | 0,60233 | 6,02033E+41 | 9,74037E+03 | 4,65828E+41 | 2,76399E+05 | 2,76140E+05 | 13 | 1,38904E-23 |
| | | | 8,06187E+61 | 1,00000E+42 | 6,4134E+22 | 14 | 4,31995E+20 | 0,10000 | 0,60651 | 6,06511E+41 | 1,12131E+04 | 4,65828E+41 | 2,62872E+05 | 2,73485E+05 | 14 | 1,12842E-23 |
| | | | 9,91578E+61 | 1,00000E+42 | 6,4134E+22 | 15 | 4,62852E+20 | 0,10000 | 0,61071 | 6,10710E+41 | 1,27837E+04 | 4,65828E+41 | 2,50176E+05 | 2,71959E+05 | 15 | 9,28484E-24 |
| | | | 1,20340E+62 | 1,00000E+42 | 6,4134E+22 | 16 | 4,93708E+20 | 0,10000 | 0,61486 | 6,14664E+41 | 1,44514E+04 | 4,65828E+41 | 2,39046E+05 | 2,65397E+05 | 16 | 7,66156E-24 |
| | | | 1,44344E+62 | 1,00000E+42 | 6,4134E+22 | 17 | 5,24565E+20 | 0,10000 | 0,61840 | 6,18402E+41 | 1,62157E+04 | 4,65828E+41 | 2,24453E+05 | 2,59696E+05 | 17 | 6,42634E-24 |
| | | | 1,71344E+62 | 1,00000E+42 | 6,4134E+22 | 18 | 5,55422E+20 | 0,10000 | 0,62195 | 6,21947E+41 | 1,80759E+04 | 4,65828E+41 | 2,16369E+05 | 2,54670E+05 | 18 | 5,44471E-24 |
| | | | 2,01517E+62 | 1,00000E+42 | 6,4134E+22 | 19 | 5,86279E+20 | 0,10000 | 0,62532 | 6,25319E+41 | 2,00316E+04 | 4,65828E+41 | 2,02024E+05 | 2,50331E+05 | 19 | 4,65457E-24 |
| | | | 2,35040E+62 | 1,00000E+42 | 6,4134E+22 | 20 | 6,17139E+20 | 0,10000 | 0,62853 | 6,28534E+41 | 2,20821E+04 | 4,65828E+41 | 1,94453E+05 | 2,46539E+05 | 20 | 4,01112E-24 |
| | | | 2,72088E+62 | 1,00000E+42 | 6,4134E+22 | 21 | 6,47992E+20 | 0,10000 | 0,63165 | 6,31608E+41 | 2,42270E+04 | 4,65828E+41 | 1,90430E+05 | 2,43270E+05 | 21 | 3,48201E-24 |
| | | | 3,12838E+62 | 1,00000E+42 | 6,4134E+22 | 22 | 6,78490E+20 | 0,10000 | 0,63455 | 6,34563E+41 | 2,64659E+04 | 4,65828E+41 | 1,84007E+05 | 2,40739E+05 | 22 | 3,04256E-24 |
| | | | 3,57466E+62 | 1,00000E+42 | 6,4134E+22 | 23 | 7,09706E+20 | 0,10000 | 0,63738 | 6,37380E+41 | 2,87982E+04 | 4,65828E+41 | 1,79303E+05 | 2,38101E+05 | 23 | 2,67457E-24 |
| | | | 4,06149E+62 | 1,00000E+42 | 6,4134E+22 | 24 | 7,40953E+20 | 0,10000 | 0,64010 | 6,40099E+41 | 3,12237E+04 | 4,65828E+41 | 1,74896E+05 | 2,36120E+05 | 24 | 2,36403E-24 |
| | | | 4,59063E+62 | 1,00000E+42 | 6,4134E+22 | 25 | 7,71420E+20 | 0,10000 | 0,64272 | 6,42717E+41 | 3,37419E+04 | 4,65828E+41 | 1,70757E+05 | 2,34498E+05 | 25 | 2,10010E-24 |
| | | | 5,16383E+62 | 1,00000E+42 | 6,4134E+22 | 26 | 8,02278E+20 | 0,10000 | 0,64524 | 6,45243E+41 | 3,63523E+04 | 4,65828E+41 | 1,66585E+05 | 2,33201E+05 | 26 | 1,87432E-24 |
| | | | 5,78287E+62 | 1,00000E+42 | 6,4134E+22 | 27 | 8,33133E+20 | 0,10000 | 0,64768 | 6,47683E+41 | 3,90548E+04 | 4,65828E+41 | 1,63178E+05 | 2,32323E+05 | 27 | 1,69030E-24 |
| | | | 6,44950E+62 | 1,00000E+42 | 6,4134E+22 | 28 | 8,63990E+20 | 0,10000 | 0,65004 | 6,50042E+41 | 4,18488E+04 | 4,65828E+41 | 1,60967E+05 | 2,31545E+05 | 28 | 1,51184E-24 |
| | | | 7,16549E+62 | 1,00000E+42 | 6,4134E+22 | 29 | 8,94847E+20 | 0,10000 | 0,65233 | 6,52328E+41 | 4,47341E+04 | 4,65828E+41 | 1,59398E+05 | 2,31132E+05 | 29 | 1,36556E-24 |
| | | | 7,93260E+62 | 1,00000E+42 | 6,4134E+22 | 30 | 9,25703E+20 | 0,10000 | 0,65454 | 6,54543E+41 | 4,77104E+04 | 4,65828E+41 | 1,58365E+05 | 2,30975E+05 | 30 | 1,23770E-24 |
| | | | 8,75260E+62 | 1,00000E+42 | 6,4134E+22 | 31 | 9,56550E+20 | 0,10000 | 0,65669 | 6,56692E+41 | 5,07774E+04 | 4,65828E+41 | 1,58295E+05 | 2,31062E+05 | 31 | 1,12542E-24 |
| | | | 9,62724E+62 | 1,00000E+42 | 6,4134E+22 | 32 | 9,87397E+20 | 0,10000 | 0,65879 | 6,58791E+41 | 5,39348E+04 | 4,65828E+41 | 1,58288E+05 | 2,31190E+05 | 32 | 1,02781E-24 |
| | | | 1,05838E+63 | 1,00000E+42 | 6,4134E+22 | 33 | 1,01827E+21 | 0,10000 | 0,66081 | 6,60811E+41 | 5,71820E+04 | 4,65828E+41 | 1,58288E+05 | 2,31319E+05 | 33 | 9,38804E-25 |
| | | | 1,15475E+63 | 1,00000E+42 | 6,4134E+22 | 34 | 1,04913E+21 | 0,10000 | 0,66279 | 6,62787E+41 | 6,05192E+04 | 4,65828E+41 | 1,58288E+05 | 2,32667E+05 | 34 | 8,60947E-25 |
| | | | 1,25967E+63 | 1,00000E+42 | 6,4134E+22 | 35 | 1,07999E+21 | 0,10000 | 0,66471 | 6,64711E+41 | 6,39458E+04 | 4,65828E+41 | 1,58288E+05 | 2,33816E+05 | 35 | 7,91531E-25 |
| | | | 1,37075E+63 | 1,00000E+42 | 6,4134E+22 | 36 | 1,11084E+21 | 0,10000 | 0,66659 | 6,66589E+41 | 6,74618E+04 | 4,65828E+41 | 1,58288E+05 | 2,34797E+05 | 36 | 7,29438E-25 |
| | | | 1,48819E+63 | 1,00000E+42 | 6,4134E+22 | 37 | 1,14170E+21 | 0,10000 | 0,66841 | 6,68415E+41 | 7,10667E+04 | 4,65828E+41 | 1,58288E+05 | 2,35607E+05 | 37 | 6,73721E-25 |
| | | | 1,61241E+63 | 1,00000E+42 | 6,4134E+22 | 38 | 1,17256E+21 | 0,10000 | 0,67019 | 6,70194E+41 | 7,47604E+04 | 4,65828E+41 | 1,58288E+05 | 2,36255E+05 | 38 | 6,23975E-25 |
| | | | 1,74279E+63 | 1,00000E+42 | 6,4134E+22 | 39 | 1,20341E+21 | 0,10000 | 0,67194 | 6,71943E+41 | 7,85427E+04 | 4,65828E+41 | 1,58288E+05 | 2,36770E+05 | 39 | 5,78333E-25 |
| | | | 1,88032E+63 | 1,00000E+42 | 6,4134E+22 | 40 | 1,23427E+21 | 0,10000 | 0,67365 | 6,73646E+41 | 8,24132E+04 | 4,65828E+41 | 1,58288E+05 | 2,37125E+05 | 40 | 5,37392E-25 |
| | | | 2,02490E+63 | 1,00000E+42 | 6,4134E+22 | 41 | 1,26513E+21 | 0,10000 | 0,67531 | 6,75312E+41 | 8,63718E+04 | 4,65828E+41 | 1,58288E+05 | 2,37318E+05 | 41 | 5,00256E-25 |
| | | | 2,17917E+63 | 1,00000E+42 | 6,4134E+22 | 42 | 1,29598E+21 | 0,10000 | 0,67694 | 6,76941E+41 | 9,04183E+04 | 4,65828E+41 | 1,58288E+05 | 2,37463E+05 | 42 | 4,66490E-25 |
| | | | 2,33592E+63 | 1,00000E+42 | 6,4134E+22 | 43 | 1,32684E+21 | 0,10000 | 0,67854 | 6,78539E+41 | 9,45252E+04 | 4,65828E+41 | 1,58288E+05 | 2,37560E+05 | 43 | 4,35719E-25 |
| | | | 2,50327E+63 | 1,00000E+42 | 6,4134E+22 | 44 | 1,35770E+21 | 0,10000 | 0,68010 | 6,80096E+41 | 9,87141E+04 | 4,65828E+41 | 1,58288E+05 | 2,37613E+05 | 44 | 4,07811E-25 |
| | | | 2,67725E+63 | 1,00000E+42 | 6,4134E+22 | 45 | 1,38855E+21 | 0,10000 | 0,68163 | 6,81628E+41 | 1,03038E+05 | 4,65828E+41 | 1,49635E+05 | 2,37719E+05 | 45 | 3,81900E-25 |
| | | | 2,85973E+63 | 1,00000E+42 | 6,4134E+22 | 46 | 1,41941E+21 | 0,10000 | 0,68313 | 6,83127E+41 | 1,07479E+05 | 4,65828E+41 | 1,48000E+05 | 2,37795E+05 | 46 | 3,58317E-25 |
| | | | 3,05032E+63 | 1,00000E+42 | 6,4134E+22 | 47 | 1,45027E+21 | 0,10000 | 0,68460 | 6,84589E+41 | 1,11962E+05 | 4,65828E+41 | 1,46417E+05 | 2,37837E+05 | 47 | 3,36652E-25 |
| | | | 3,24919E+63 | 1,00000E+42 | 6,4134E+22 | 48 | 1,48113E+21 | 0,10000 | 0,68604 | 6,86041E+41 | 1,16531E+05 | 4,65828E+41 | 1,44884E+05 | 2,37845E+05 | 48 | 3,16713E-25 |
| | | | 3,45653E+63 | 1,00000E+42 | 6,4134E+22 | 49 | 1,51198E+21 | 0,10000 | 0,68746 | 6,87457E+41 | 1,21187E+05 | 4,65828E+41 | 1,43398E+05 | 2,37864E+05 | 49 | 2,98330E-25 |
| | | | 3,67250E+63 | 1,00000E+42 | 6,4134E+22 | 50 | 1,54284E+21 | 0,10000 | 0,68885 | 6,88852E+41 | 1,25929E+05 | 4,65828E+41 | 1,41955E+05 | 2,37885E+05 | 50 | 2,81335E-25 |
| | | | 3,89729E+63 | 1,00000E+42 | 6,4134E+22 | 51 | 1,57370E+21 | 0,10000 | 0,69021 | 6,90213E+41 | 1,30757E+05 | 4,65828E+41 | 1,40558E+05 | 2,37913E+05 | 51 | 2,65965E-25 |
| | | | 4,13106E+63 | 1,00000E+42 | 6,4134E+22 | 52 | 1,60455E+21 | 0,10000 | 0,69155 | 6,91554E+41 | 1,35672E+05 | 4,65828E+41 | 1,39200E+05 | 2,37947E+05 | 52 | 2,51105E-25 |
| | | | 4,37401E+63 | 1,00000 | | | | | | | | | | | | |