error opening file code 0.000000d

This simulation was at 22:06:21 on Mar 13 2013

gamma_wavelength = 3.656195666798545000000000000000000000000000000E+006 hertz

*mid_point_range = 2.262217341169746700000000000000000000000000000E+041 meters

radius = 2.110905552398153100000000000000000000000000000E+006 meters

sphere_energy = 1.939132589776534400000000000000000000000000000E+030 joules

angular freq. w = 1.325215100000000000000000000000000000000000000E-033 Hertz

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 5.347106701374421700000000000000000000000000000E+021 kg

PROTON coupling_energy = 2.673553350687210900000000000000000000000000000E+021 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.336776675343605400000000000000000000000000000E+021 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

particle_mass = 4311656

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 5.34710670137442170000000000000000000000000000E+021 kg

PROTON coupling_energy = 2.67355335068721090000000000000000000000000000E+021 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.33677667534360540000000000000000000000000000E+021 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 101

exponent_gamma = -217

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.828097833399272500000000000000000000000000000E+006 hertz

*mid_point_range = 1.131108670584873300000000000000000000000000000E+041 meters

radius = 1.055452776199076600000000000000000000000000000E+006 meters

sphere_energy = 2.423915737220667900000000000000000000000000000E+029 joules

angular freq. w = 2.650430200000000000000000000000000000000000000E-033 Hertz

sphere_energy = 2.423915737220667900000000000000000000000000000000E+029 joules

gamma_energy = 5.268585183804030400000000000000000000000000000000E-066 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.336776675343605400000000000000000000000000000000E+021 kg

PROTON coupling_energy = 6.683883376718027200000000000000000000000000000000E+020 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 3.341941688359013600000000000000000000000000000000E+020 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 98

exponent_gamma = -216

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 9.140489166996362600000000000000000000000000000000E+005 hertz

*mid_point_range = 5.655543352924366700000000000000000000000000000E+040 meters

radius = 5.277263880995382800000000000000000000000000000E+005 meters

sphere_energy = 3.029894671525834900000000000000000000000000000E+028 joules

angular freq. w = 5.300860400000000000000000000000000000000000000E-033 Hertz

sphere_energy = 3.029894671525834900000000000000000000000000000E+028 joules

gamma_energy = 1.053717036760806100000000000000000000000000000E-065 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 3.341941688359013600000000000000000000000000000E+020 kg

PROTON coupling_energy = 1.670970844179506800000000000000000000000000000E+020 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 8.354854220897534000000000000000000000000000000E+019 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 95

exponent_gamma = -215

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 4.570244583498181300000000000000000000000000000E+005 hertz

*mid_point_range = 2.827771676462183300000000000000000000000000000E+040 meters

radius = 2.638631940497691400000000000000000000000000000E+005 meters

sphere_energy = 3.787368339407293700000000000000000000000000000E+027 joules

angular freq. w = 1.060172080000000000000000000000000000000000000E-032 Hertz

sphere_energy = 3.787368339407293700000000000000000000000000000E+027 joules

gamma_energy = 2.107434073521612100000000000000000000000000000E-065 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 8.354854220897534000000000000000000000000000000E+019 kg

PROTON coupling_energy = 4.177427110448767000000000000000000000000000000E+019 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.088713555224383500000000000000000000000000000E+019 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 92

exponent_gamma = -214

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.285122291749090700000000000000000000000000000E+005 hertz

*mid_point_range = 1.413885838231091700000000000000000000000000000E+040 meters

radius = 1.319315970248845700000000000000000000000000000E+005 meters

sphere_energy = 4.734210424259117100000000000000000000000000000E+026 joules

angular freq. w = 2.120344160000000000000000000000000000000000000E-032 Hertz

sphere_energy = 4.734210424259117100000000000000000000000000000E+026 joules

gamma_energy = 4.214868147043224300000000000000000000000000000E-065 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.088713555224383500000000000000000000000000000E+019 kg

PROTON coupling_energy = 1.044356777612191700000000000000000000000000000E+019 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 5.221783888060958700000000000000000000000000000E+018 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 89

exponent_gamma = -213

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.14256114587454530000000000000000000000000000000E+005 hertz

*mid_point_range = 7.06942919115545830000000000000000000000000000000E+039 meters

radius = 6.59657985124422850000000000000000000000000000000E+004 meters

sphere_energy = 5.91776303032389630000000000000000000000000000000E+025 joules

angular freq. w = 4.24068832000000000000000000000000000000000000000E-032 Hertz

sphere_energy = 5.91776303032389630000000000000000000000000000000E+025 joules

gamma_energy = 8.42973629408644860000000000000000000000000000000E-065 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 5.22178388806095870000000000000000000000000000000E+018 kg

PROTON coupling_energy = 2.61089194403047940000000000000000000000000000000E+018 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
1.30544597201523970000000000000000000000000000000E+018 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 86

exponent_gamma = -212

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 5.71280572937272660000000000000000000000000000000E+004 hertz

*mid_point_range = 3.53471459557772920000000000000000000000000000000E+039 meters

radius = 3.29828992562211420000000000000000000000000000000E+004 meters

sphere_energy = 7.39720378790487040000000000000000000000000000000E+024 joules

angular freq. w = 8.48137664000000000000000000000000000000000000000E-032 Hertz

sphere_energy = 7.39720378790487040000000000000000000000000000000E+024 joules

gamma_energy = 1.68594725881728970000000000000000000000000000000E-064 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.30544597201523970000000000000000000000000000000E+018
kg

PROTON coupling_energy = 6.52722986007619840000000000000000000000000000000E+017
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
3.263614930038099200000000000000000000000000000E+017 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 83

exponent_gamma = -211

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.856402864686363300000000000000000000000000000E+004 hertz

*mid_point_range = 1.767357297788864600000000000000000000000000000E+039 meters

radius = 1.649144962811057100000000000000000000000000000E+004 meters

sphere_energy = 9.246504734881088000000000000000000000000000000E+023 joules

angular freq. w = 1.696275328000000000000000000000000000000000000E-031 Hertz

sphere_energy = 9.246504734881088000000000000000000000000000000E+023 joules

gamma_energy = 3.371894517634579400000000000000000000000000000E-064 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 3.263614930038099200000000000000000000000000000E+017 kg

PROTON coupling_energy = 1.631807465019049600000000000000000000000000000E+017 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 8.159037325095248000000000000000000000000000000E+016 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 80

exponent_gamma = -210

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.428201432343181700000000000000000000000000000E+004 hertz

*mid_point_range = 8.836786488944322900000000000000000000000000000E+038 meters

radius = 8.245724814055285600000000000000000000000000000E+003 meters

sphere_energy = 1.155813091860136000000000000000000000000000000E+023 joules

angular freq. w = 3.392550656000000000000000000000000000000000000E-031 Hertz

sphere_energy = 1.155813091860136000000000000000000000000000000E+023 joules

gamma_energy = 6.743789035269158900000000000000000000000000000E-064 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 8.159037325095248000000000000000000000000000000E+016 kg

PROTON coupling_energy = 4.079518662547624000000000000000000000000000000E+016 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.039759331273812000000000000000000000000000000E+016 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 77

exponent_gamma = -209

USING LOW HALF OF RANGE =======||||||||||||||||

gamma_wavelength = 7.141007161715908300000000000000000000000000000E+003 hertz

*mid_point_range = 4.418393244472161500000000000000000000000000000E+038 meters

radius = 4.122862407027642800000000000000000000000000000E+003 meters

sphere_energy = 1.444766364825170000000000000000000000000000000E+022 joules

angular freq. w = 6.785101312000000000000000000000000000000000000E-031 Hertz

sphere_energy = 1.444766364825170000000000000000000000000000000E+022 joules

gamma_energy = 1.34875780705383180000000000000000000000000000E-063 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.03975933127381200000000000000000000000000000E+016 kg

PROTON coupling_energy = 1.01987966563690600000000000000000000000000000E+016 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 5.09939832818453000000000000000000000000000000E+015 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 74

exponent_gamma = -208

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.57050358085795410000000000000000000000000000E+003 hertz

*mid_point_range = 2.20919662223608070000000000000000000000000000E+038 meters

radius   = 2.06143120351382140000000000000000000000000000E+003 meters

sphere_energy = 1.80595795603146250000000000000000000000000000E+021 joules

angular freq. w = 1.35702026240000000000000000000000000000000000E-030 Hertz

sphere_energy = 1.80595795603146250000000000000000000000000000E+021 joules

gamma_energy = 2.69751561410766350000000000000000000000000000E-063 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 5.09939832818453000000000000000000000000000000E+015 kg

PROTON coupling_energy = 2.54969916409226500000000000000000000000000000E+015 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.27484958204613250000000000000000000000000000E+015 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 71

exponent_gamma = -207

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.78525179042897710000000000000000000000000000E+003 hertz

*mid_point_range = 1.10459831111804040000000000000000000000000000E+038 meters

radius = 1.03071560175691070000000000000000000000000000E+003 meters

sphere_energy = 2.25744744503932810000000000000000000000000000E+020 joules

angular freq. w = 2.71404052480000000000000000000000000000000000E-030 Hertz

sphere_energy = 2.25744744503932810000000000000000000000000000E+020 joules

gamma_energy = 5.39503122821532710000000000000000000000000000E-063 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.27484958204613250000000000000000000000000000E+015 kg

PROTON coupling_energy = 6.37424791023066250000000000000000000000000000E+014 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 3.18712395511533120000000000000000000000000000E+014 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 68

exponent_gamma = -206

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 8.926258952144885400000000000000000000000000000E+002 hertz

*mid_point_range = 5.522991555590201800000000000000000000000000000E+037 meters

radius = 5.153578008784553500000000000000000000000000000E+002 meters

sphere_energy = 2.821809306299160200000000000000000000000000000E+019 joules

angular freq. w = 5.428081049600000000000000000000000000000000E-030 Hertz

sphere_energy = 2.821809306299160200000000000000000000000000000E+019 joules

gamma_energy = 1.079006245643065400000000000000000000000000000E-062 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 3.187123955115331200000000000000000000000000000E+014 kg

PROTON coupling_energy = 1.593561977557665600000000000000000000000000000E+014 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 7.967809887788328100000000000000000000000000000E+013 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 65

exponent_gamma = -205

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 4.463129476072442700000000000000000000000000000E+002 hertz

*mid_point_range = 2.761495777795100900000000000000000000000000000E+037 meters

radius = 2.576789004392276800000000000000000000000000000E+002 meters

sphere_energy = 3.527261632873950200000000000000000000000000000E+018 joules

angular freq. w = 1.085616209920000000000000000000000000000000E-029 Hertz

sphere_energy = 3.527261632873950200000000000000000000000000000E+018 joules

gamma_energy = 2.158012491286130800000000000000000000000000000E-062 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 7.967809887788328100000000000000000000000000000E+013 kg

PROTON coupling_energy = 3.983904943894164100000000000000000000000000000E+013 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.991952471947082000000000000000000000000000000E+013 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 62

exponent_gamma = -204

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.23156473803622130000000000000000000000000000000E+002 hertz

*mid_point_range = 1.38074788889755050000000000000000000000000000000E+037 meters

radius = 1.28839450219613840000000000000000000000000000000E+002 meters

sphere_energy = 4.40907704109243780000000000000000000000000000000E+017 joules

angular freq. w = 2.17123241984000000000000000000000000000000000000E-029 Hertz

sphere_energy = 4.40907704109243780000000000000000000000000000000E+017 joules

gamma_energy = 4.31602498257226170000000000000000000000000000000E-062 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.99195247194708200000000000000000000000000000000E+013 kg

PROTON coupling_energy = 9.95976235973541020000000000000000000000000000000E+012 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
4.979881179867705100000000000000000000000000000E+012 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 59

exponent_gamma = -203

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.115782369018110700000000000000000000000000000E+002 hertz

*mid_point_range = 6.903739444487752300000000000000000000000000000E+036 meters

radius = 6.441972510980691900000000000000000000000000000E+001 meters

sphere_energy = 5.511346301365547200000000000000000000000000000E+016 joules

angular freq. w = 4.342464839680000000000000000000000000000000000E-029 Hertz

sphere_energy = 5.511346301365547200000000000000000000000000000E+016 joules

gamma_energy = 8.632049965144523300000000000000000000000000000E-062 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.979881179867705100000000000000000000000000000E+012
kg

PROTON coupling_energy = 2.489940589933852500000000000000000000000000000E+012
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
1.244970294966926300000000000000000000000000000E+012 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 56

exponent_gamma = -202

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 5.57891184509055340000000000000000000000000000E+001 hertz

*mid_point_range = 3.45186972224387610000000000000000000000000000E+036 meters

radius = 3.22098625549034590000000000000000000000000000E+001 meters

sphere_energy = 6.88918287670693400000000000000000000000000000E+015 joules

angular freq. w = 8.68492967936000000000000000000000000000000000E-029 Hertz

sphere_energy = 6.88918287670693400000000000000000000000000000E+015 joules

gamma_energy = 1.72640999302890470000000000000000000000000000E-061 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.244970294966926300000000000000000000000000000E+012 kg

PROTON coupling_energy = 6.224851474834631300000000000000000000000000000E+011 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 3.112425737417315700000000000000000000000000000E+011 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 53

exponent_gamma = -201

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.789455922545276700000000000000000000000000000E+001 hertz

*mid_point_range = 1.725934861121938100000000000000000000000000000E+036 meters

radius = 1.610493127745173000000000000000000000000000000E+001 meters

sphere_energy = 8.611478595883667500000000000000000000000000000E+014 joules

angular freq. w = 1.736985935872000000000000000000000000000000000E-028 Hertz

sphere_energy = 8.611478595883667500000000000000000000000000000E+014 joules

gamma_energy = 3.452819986057809300000000000000000000000000000E-061 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 3.112425737417315700000000000000000000000000000E+011 kg

PROTON coupling_energy = 1.556212868708657800000000000000000000000000000E+011 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 7.781064343543289200000000000000000000000000000E+010 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 50

exponent_gamma = -200

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.394727961272638300000000000000000000000000000E+001 hertz

*mid_point_range = 8.629674305609690300000000000000000000000000000E+035 meters

radius = 8.052465638725864800000000000000000000000000000E+000 meters

sphere_energy = 1.076434824485458400000000000000000000000000000E+014 joules

angular freq. w = 3.473971871744000000000000000000000000000000000E-028 Hertz

sphere_energy = 1.076434824485458400000000000000000000000000000E+014 joules

gamma_energy = 6.90563997211561870000000000000000000000000000000E-061 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 7.781064343543289200000000000000000000000000000E+010 kg

PROTON coupling_energy = 3.890532171771644600000000000000000000000000000E+010 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.945266085885822300000000000000000000000000000E+010 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 47

exponent_gamma = -199

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 6.97363980636319170000000000000000000000000000000E+000 hertz

*mid_point_range = 4.31483715280484520000000000000000000000000000000E+035 meters

radius   = 4.02623281936293240000000000000000000000000000000E+000 meters

sphere_energy = 1.345543530606823000000000000000000000000000000E+013 joules

angular freq. w = 6.947943743488000000000000000000000000000000000E-028 Hertz

sphere_energy = 1.345543530606823000000000000000000000000000000E+013 joules

gamma_energy = 1.381127994423123700000000000000000000000000000E-060 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.945266085885822300000000000000000000000000000E+010 kg

PROTON coupling_energy = 9.726330429429111500000000000000000000000000000E+009 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 4.863165214714555700000000000000000000000000000E+009 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 44

exponent_gamma = -198

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.486819903181595800000000000000000000000000000E+000 hertz

*mid_point_range = 2.157418576402422600000000000000000000000000000E+035 meters

radius = 2.013116409681466200000000000000000000000000000E+000 meters

sphere_energy = 1.681929413258528800000000000000000000000000000E+012 joules

angular freq. w = 1.389588748697600000000000000000000000000000E-027 Hertz

sphere_energy = 1.681929413258528800000000000000000000000000000E+012 joules

gamma_energy = 2.762255988846247500000000000000000000000000000E-060 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.863165214714555700000000000000000000000000000E+009 kg

PROTON coupling_energy = 2.431582607357277900000000000000000000000000000E+009 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.215791303678638900000000000000000000000000000E+009 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 41

exponent_gamma = -197

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.74340995159079790000000000000000000000000000000E+000 hertz

*mid_point_range = 1.07870928820121130000000000000000000000000000000E+035 meters

radius = 1.00655820484073310000000000000000000000000000000E+000 meters

sphere_energy = 2.10241176657316100000000000000000000000000000000E+011 joules

angular freq. w = 2.77917749739520000000000000000000000000000000E-027 Hertz

sphere_energy = 2.10241176657316100000000000000000000000000000000E+011 joules

gamma_energy = 5.52451197769249490000000000000000000000000000000E-060 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.21579130367863890000000000000000000000000000000E+009 kg

PROTON coupling_energy = 6.07895651839319470000000000000000000000000000000E+008 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 3.03947825919659730000000000000000000000000000000E+008 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 38

exponent_gamma = -196

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 8.71704975795398960000000000000000000000000000E-001 hertz

*mid_point_range = 5.39354644100605650000000000000000000000000000E+034 meters

radius = 5.03279102420366550000000000000000000000000000E-001 meters

sphere_energy = 2.62801470821645130000000000000000000000000000E+010 joules

angular freq. w = 5.55835499479040000000000000000000000000000E-027 Hertz

sphere_energy = 2.62801470821645130000000000000000000000000000E+010 joules

gamma_energy = 1.10490239553849900000000000000000000000000000E-059 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000 Hertz

PROTON coupling_energy = 3.03947825919659730000000000000000000000000000E+008 kg

PROTON coupling_energy = 1.51973912959829870000000000000000000000000000E+008 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 7.59869564799149330000000000000000000000000000E+007 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 35

exponent_gamma = -195

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 4.358524878976994800000000000000000000000000000E-001 hertz

*mid_point_range = 2.696773220503028200000000000000000000000000000E+034 meters

radius = 2.516395512101832800000000000000000000000000000E-001 meters

sphere_energy = 3.285018385270564100000000000000000000000000000E+009 joules

angular freq. w = 1.111670998958080000000000000000000000000000000E-026 Hertz

sphere_energy = 3.285018385270564100000000000000000000000000000E+009 joules

gamma_energy = 2.209804791076998000000000000000000000000000000E-059 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 7.598695647991493300000000000000000000000000000E+007 kg

PROTON coupling_energy = 3.799347823995746700000000000000000000000000000E+007 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
1.899673911997873300000000000000000000000000000E+007 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 32

exponent_gamma = -194

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.17926243948849740000000000000000000000000000000E-001 hertz

*mid_point_range = 1.34838661025151410000000000000000000000000000000E+034 meters

radius = 1.25819775605091640000000000000000000000000000000E-001 meters

sphere_energy = 4.10627298158820510000000000000000000000000000000E+008 joules

angular freq. w = 2.22334199791616000000000000000000000000000000000E-026 Hertz

sphere_energy = 4.10627298158820510000000000000000000000000000000E+008 joules

gamma_energy = 4.41960958215399590000000000000000000000000000000E-059 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.899673911997873300000000000000000000000000000000E+007
kg

PROTON coupling_energy = 9.498369559989366700000000000000000000000000000000E+006
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
4.749184779994683300000000000000000000000000000E+006 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 29

exponent_gamma = -193

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.089631219744248700000000000000000000000000000E-001 hertz

*mid_point_range = 6.741933051257570600000000000000000000000000000E+033 meters

radius = 6.290988780254581900000000000000000000000000000E-002 meters

sphere_energy = 5.132841226985256400000000000000000000000000000E+007 joules

angular freq. w = 4.446683995832320000000000000000000000000000000E-026 Hertz

sphere_energy = 5.132841226985256400000000000000000000000000000E+007 joules

gamma_energy = 8.839219164307991900000000000000000000000000000E-059 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.749184779994683300000000000000000000000000000E+006 kg

PROTON coupling_energy = 2.374592389997341700000000000000000000000000000E+006 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.187296194998670800000000000000000000000000000E+006 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 26

exponent_gamma = -192

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 5.448156098721243500000000000000000000000000000E-002 hertz

*mid_point_range = 3.370966525628785300000000000000000000000000000E+033 meters

radius = 3.145494390127291000000000000000000000000000000E-002 meters

sphere_energy = 6.416051533731570500000000000000000000000000000E+006 joules

angular freq. w = 8.893367991664640000000000000000000000000000000E-026 Hertz

sphere_energy = 6.416051533731570500000000000000000000000000000E+006 joules

gamma_energy = 1.767843832861598400000000000000000000000000000E-058 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.187296194998670800000000000000000000000000000000E+006 kg

PROTON coupling_energy = 5.936480974993354200000000000000000000000000000000E+005 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.968240487496677100000000000000000000000000000000E+005 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 23

exponent_gamma = -191

USING LOW HALF OF RANGE =======||||||||||||||||

gamma_wavelength = 2.724078049360621800000000000000000000000000000000E-002 hertz

*mid_point_range = 1.685483262814392600000000000000000000000000000000E+033 meters

radius = 1.572747195063645500000000000000000000000000000000E-002 meters

sphere_energy = 8.020064417164463100000000000000000000000000000000E+005 joules

angular freq. w = 1.778673598332928000000000000000000000000000000000E-025 Hertz

sphere_energy = 8.020064417164463100000000000000000000000000000000E+005 joules

gamma_energy = 3.535687665723196800000000000000000000000000000E-058 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.96824048749667710000000000000000000000000000E+005 kg

PROTON coupling_energy = 1.48412024374833850000000000000000000000000000E+005 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 7.42060121874169270000000000000000000000000000E+004 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 20

exponent_gamma = -190

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.362039024680310900000000000000000000000000000E-002 hertz

*mid_point_range = 8.427416314071963200000000000000000000000000000E+032 meters

radius   = 7.863735975318227400000000000000000000000000000E-003 meters

sphere_energy = 1.00250805214555790000000000000000000000000000E+005 joules

angular freq. w = 3.55734719666585600000000000000000000000000000E-025 Hertz

sphere_energy = 1.00250805214555790000000000000000000000000000E+005 joules

gamma_energy = 7.07137533144639350000000000000000000000000000E-058 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 7.42060121874169270000000000000000000000000000E+004 kg

PROTON coupling_energy = 3.71030060937084640000000000000000000000000000E+004 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.85515030468542320000000000000000000000000000E+004 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 17

exponent_gamma = -189

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 6.810195123401554400000000000000000000000000000E-003 hertz

*mid_point_range = 4.213708157035981600000000000000000000000000000E+032 meters

radius = 3.931867987659113700000000000000000000000000000E-003 meters

sphere_energy = 1.253135065181947400000000000000000000000000000E+004 joules

angular freq. w = 7.114694393331712000000000000000000000000000000E-025 Hertz

sphere_energy = 1.253135065181947400000000000000000000000000000E+004 joules

gamma_energy = 1.414275066289278700000000000000000000000000000E-057 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.855150304685423200000000000000000000000000000E+004 kg

PROTON coupling_energy = 9.275751523427115900000000000000000000000000000E+003 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 4.637875761713557900000000000000000000000000000E+003 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 14

exponent_gamma = -188

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.40509756170077720000000000000000000000000000E-003 hertz

*mid_point_range = 2.10685407851799080000000000000000000000000000E+032 meters

radius = 1.96593399382955680000000000000000000000000000E-003 meters

sphere_energy = 1.56641883147743420000000000000000000000000000E+003 joules

angular freq. w = 1.42293887866634240000000000000000000000000000E-024 Hertz

sphere_energy = 1.56641883147743420000000000000000000000000000E+003 joules

gamma_energy = 2.82855013257855740000000000000000000000000000E-057 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.63787576171355790000000000000000000000000000E+003 kg

PROTON coupling_energy = 2.31893788085677900000000000000000000000000000E+003 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.15946894042838950000000000000000000000000000E+003 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 11

exponent_gamma = -187

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.702548780850388600000000000000000000000000000E-003 hertz

*mid_point_range = 1.053427039258995400000000000000000000000000000E+032 meters

radius = 9.829669969147784200000000000000000000000000000E-004 meters

sphere_energy = 1.958023539346792700000000000000000000000000000E+002 joules

angular freq. w = 2.845877757332684800000000000000000000000000000E-024 Hertz

sphere_energy = 1.958023539346792700000000000000000000000000000E+002 joules

gamma_energy = 5.657100265157114800000000000000000000000000000E-057 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.159468940428389500000000000000000000000000000E+003 kg

PROTON coupling_energy = 5.797344702141947400000000000000000000000000000E+002 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.898672351070973700000000000000000000000000000E+002 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 8

exponent_gamma = -186

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 8.5127439042519430000000000000000000000000000000E-004 hertz

*mid_point_range = 5.2671351962949770000000000000000000000000000000E+031 meters

radius = 4.9148349845738921000000000000000000000000000000E-004 meters

sphere_energy = 2.4475294241834909000000000000000000000000000000E+001 joules

angular freq. w = 5.6917555146653696000000000000000000000000000000E-024 Hertz

sphere_energy = 2.4475294241834909000000000000000000000000000000E+001 joules

gamma_energy = 1.1314200530314230000000000000000000000000000000E-056 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.8986723510709737000000000000000000000000000000E+002 kg

PROTON coupling_energy = 1.4493361755354869000000000000000000000000000000E+002 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
7.24668087767743430000000000000000000000000000E+001 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 5

exponent_gamma = -185

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 4.25637195212597150000000000000000000000000000E-004 hertz

*mid_point_range = 2.63356759814748850000000000000000000000000000E+031 meters

radius = 2.45741749228694610000000000000000000000000000E-004 meters

sphere_energy = 3.05941178022936370000000000000000000000000000E+000 joules

angular freq. w = 1.13835110293307390000000000000000000000000000E-023 Hertz

sphere_energy = 3.05941178022936370000000000000000000000000000E+000 joules

gamma_energy = 2.26284010606284590000000000000000000000000000E-056 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 7.24668087767743430000000000000000000000000000E+001
kg

PROTON coupling_energy = 3.62334043883871710000000000000000000000000000E+001
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
1.81167021941935860000000000000000000000000000E+001 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = 2

exponent_gamma = -184

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.12818597606298570000000000000000000000000000E-004 hertz

*mid_point_range = 1.31678379907374430000000000000000000000000000E+031 meters

radius = 1.22870874614347300000000000000000000000000000E-004 meters

sphere_energy = 3.82426472528670460000000000000000000000000000E-001 joules

angular freq. w = 2.27670220586614780000000000000000000000000000E-023 Hertz

sphere_energy = 3.82426472528670460000000000000000000000000000E-001 joules

gamma_energy = 4.52568021212569180000000000000000000000000000E-056 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.81167021941935860000000000000000000000000000E+001 kg

PROTON coupling_energy = 9.05835109709679290000000000000000000000000000E+000 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 4.52917554854839640000000000000000000000000000E+000 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -1

exponent_gamma = -183

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.06409298803149290000000000000000000000000000E-004 hertz

*mid_point_range = 6.58391899536872130000000000000000000000000000E+030 meters

radius = 6.14354373071736510000000000000000000000000000E-005 meters

sphere_energy = 4.78033090660838070000000000000000000000000000E-002 joules

angular freq. w = 4.55340441173229570000000000000000000000000000E-023 Hertz

sphere_energy = 4.78033090660838070000000000000000000000000000E-002 joules

gamma_energy = 9.05136042425138370000000000000000000000000000E-056 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.529175548548396400000000000000000000000000000E+000 kg

PROTON coupling_energy = 2.264587774274198200000000000000000000000000000E+000 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.132293887137099100000000000000000000000000000E+000 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -4

exponent_gamma = -182

USING LOW HALF OF RANGE =======||||||||||||||||

gamma_wavelength = 5.320464940157464400000000000000000000000000000E-005 hertz

*mid_point_range = 3.291959497684360600000000000000000000000000000E+030 meters

radius = 3.071771865358682600000000000000000000000000000E-005 meters

sphere_energy = 5.975413633260475900000000000000000000000000000E-003 joules

angular freq. w = 9.106808823464591400000000000000000000000000000E-023 Hertz

sphere_energy = 5.975413633260475900000000000000000000000000000E-003 joules

gamma_energy = 1.810272084850276700000000000000000000000000000E-055 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.132293887137099100000000000000000000000000000E+000 kg

PROTON coupling_energy = 5.661469435685495500000000000000000000000000000E-001 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.830734717842747800000000000000000000000000000E-001 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -7

exponent_gamma = -181

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.660232470078732200000000000000000000000000000E-005 hertz

*mid_point_range = 1.645979748842180300000000000000000000000000000E+030 meters

radius   = 1.535885932679341300000000000000000000000000000E-005 meters

sphere_energy = 7.469267041575594900000000000000000000000000000E-004 joules

angular freq. w = 1.821361764692918300000000000000000000000000000E-022 Hertz

sphere_energy = 7.469267041575594900000000000000000000000000000E-004 joules

gamma_energy = 3.620544169700553500000000000000000000000000000E-055 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.830734717842747800000000000000000000000000000E-001 kg

PROTON coupling_energy = 1.415367358921373900000000000000000000000000000E-001 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 7.076836794606869400000000000000000000000000000E-002 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -10

exponent_gamma = -180

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.330116235039366100000000000000000000000000000E-005 hertz

*mid_point_range = 8.229898744210901600000000000000000000000000000E+029 meters

radius = 7.679429663396706400000000000000000000000000000E-006 meters

sphere_energy = 9.336583801969493600000000000000000000000000000E-005 joules

angular freq. w = 3.642723529385836600000000000000000000000000000E-022 Hertz

sphere_energy = 9.336583801969493600000000000000000000000000000E-005 joules

gamma_energy = 7.241088339401107000000000000000000000000000000E-055 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 7.076836794606869400000000000000000000000000000E-002 kg

PROTON coupling_energy = 3.538418397303434700000000000000000000000000000E-002 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.769209198651717400000000000000000000000000000E-002 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -13

exponent_gamma = -179

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 6.650581175196830500000000000000000000000000000E-006 hertz

*mid_point_range = 4.114949372105450800000000000000000000000000000E+029 meters

radius = 3.839714831698353200000000000000000000000000000E-006 meters

sphere_energy = 1.167072975246186700000000000000000000000000000E-005 joules

angular freq. w = 7.285447058771673100000000000000000000000000000E-022 Hertz

sphere_energy = 1.167072975246186700000000000000000000000000000E-005 joules

gamma_energy = 1.448217667880221400000000000000000000000000000E-054 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.769209198651717400000000000000000000000000000E-002 kg

PROTON coupling_energy = 8.846045993258586800000000000000000000000000000E-003 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 4.423022996629293400000000000000000000000000000E-003 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -16

exponent_gamma = -178

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.3252905875984152000000000000000000000000000000E-006 hertz

*mid_point_range = 2.0574746860527254000000000000000000000000000000E+029 meters

radius = 1.9198574158491766000000000000000000000000000000E-006 meters

sphere_energy = 1.4588412190577334000000000000000000000000000000E-006 joules

angular freq. w = 1.4570894117543346000000000000000000000000000000E-021 Hertz

sphere_energy = 1.4588412190577334000000000000000000000000000000E-006 joules

gamma_energy = 2.8964353357604428000000000000000000000000000000E-054 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.4230229966292934000000000000000000000000000000E-003 kg

PROTON coupling_energy = 2.2115114983146467000000000000000000000000000000E-003 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.1057557491573233000000000000000000000000000000E-003 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -19

exponent_gamma = -177

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.662645293799207600000000000000000000000000000E-006 hertz

*mid_point_range = 1.028737343026362700000000000000000000000000000E+029 meters

radius = 9.599287079245883000000000000000000000000000000E-007 meters

sphere_energy = 1.823551523822166700000000000000000000000000000E-007 joules

angular freq. w = 2.914178823508669200000000000000000000000000000E-021 Hertz

sphere_energy = 1.823551523822166700000000000000000000000000000E-007 joules

gamma_energy = 5.792870671520885600000000000000000000000000000E-054 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.105755749157323300000000000000000000000000000E-003 kg

PROTON coupling_energy = 5.528778745786616700000000000000000000000000000E-004 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
2.764389372893308400000000000000000000000000000E-004 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -22

exponent_gamma = -176

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 8.313226468996038100000000000000000000000000000E-007 hertz

*mid_point_range = 5.143686715131813500000000000000000000000000000E+028 meters

radius = 4.799643539622941500000000000000000000000000000E-007 meters

sphere_energy = 2.279439404777708400000000000000000000000000000E-008 joules

angular freq. w = 5.828357647017338500000000000000000000000000000E-021 Hertz

sphere_energy = 2.279439404777708400000000000000000000000000000E-008 joules

gamma_energy = 1.158574134304177100000000000000000000000000000E-053 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.764389372893308400000000000000000000000000000E-004 kg

PROTON coupling_energy = 1.382194686446654200000000000000000000000000000E-004
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
6.91097343223327090000000000000000000000000000000E-005 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -25

exponent_gamma = -175

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 4.15661323449801900000000000000000000000000000000E-007 hertz

*mid_point_range = 2.57184335756590670000000000000000000000000000000E+028 meters

radius = 2.39982176981147080000000000000000000000000000000E-007 meters

sphere_energy = 2.84929925597213550000000000000000000000000000000E-009 joules

angular freq. w = 1.16567152940346770000000000000000000000000000000E-020 Hertz

sphere_energy = 2.84929925597213550000000000000000000000000000000E-009 joules

gamma_energy = 2.31714826860835420000000000000000000000000000000E-053 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 6.91097343223327090000000000000000000000000000000E-005 kg

PROTON coupling_energy = 3.455486716116635500000000000000000000000000000E-005 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.727743358058317700000000000000000000000000000E-005 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -28

exponent_gamma = -174

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.078306617249009500000000000000000000000000000E-007 hertz

*mid_point_range = 1.285921678782953400000000000000000000000000000E+028 meters

radius = 1.199910884905735400000000000000000000000000000E-007 meters

sphere_energy = 3.561624069965169400000000000000000000000000000E-010 joules

angular freq. w = 2.331343058806935400000000000000000000000000000E-020 Hertz

sphere_energy = 3.561624069965169400000000000000000000000000000E-010 joules

gamma_energy = 4.634296537216708500000000000000000000000000000E-053 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.72774335805831770000000000000000000000000000000E-005 kg

PROTON coupling_energy = 8.63871679029158870000000000000000000000000000000E-006 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 4.31935839514579430000000000000000000000000000000E-006 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -31

exponent_gamma = -173

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.039153308624504800000000000000000000000000000E-007 hertz

*mid_point_range = 6.429608393914766900000000000000000000000000000E+027 meters

radius = 5.999554424528676900000000000000000000000000000E-008 meters

sphere_energy = 4.452030087456461700000000000000000000000000000E-011 joules

angular freq. w = 4.662686117613870800000000000000000000000000000E-020 Hertz

sphere_energy = 4.452030087456461700000000000000000000000000000E-011 joules

gamma_energy = 9.268593074433416900000000000000000000000000000E-053 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.319358395145794300000000000000000000000000000E-006 kg

PROTON coupling_energy = 2.159679197572897200000000000000000000000000000E-006 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.079839598786448600000000000000000000000000000E-006 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -34

exponent_gamma = -172

USING LOW HALF OF RANGE =======|||||||||||||||

gamma_wavelength = 5.195766543122523800000000000000000000000000000E-008 hertz

*mid_point_range = 3.214804196957383400000000000000000000000000000E+027 meters

radius = 2.999777212264338500000000000000000000000000000E-008 meters

sphere_energy = 5.565037609320577100000000000000000000000000000E-012 joules

angular freq. w = 9.3253722352277416000000000000000000000000000000E-020 Hertz

sphere_energy = 5.5650376093205771000000000000000000000000000000E-012 joules

gamma_energy = 1.8537186148866834000000000000000000000000000000E-052 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.0798395987864486000000000000000000000000000000E-006 kg

PROTON coupling_energy = 5.3991979939322429000000000000000000000000000000E-007 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.6995989969661215000000000000000000000000000000E-007 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -37

exponent_gamma = -171

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.5978832715612619000000000000000000000000000000E-008 hertz

*mid_point_range = 1.607402098478691700000000000000000000000000000E+027 meters

radius = 1.499888606132169200000000000000000000000000000E-008 meters

sphere_energy = 6.956297011650721400000000000000000000000000000E-013 joules

angular freq. w = 1.865074447045548300000000000000000000000000000E-019 Hertz

sphere_energy = 6.956297011650721400000000000000000000000000000E-013 joules

gamma_energy = 3.707437229773366800000000000000000000000000000E-052 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.699598996966121500000000000000000000000000000E-007 kg

PROTON coupling_energy = 1.349799498483060700000000000000000000000000000E-007 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 6.748997492415303600000000000000000000000000000E-008 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -40

exponent_gamma = -170

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.298941635780630900000000000000000000000000000E-008 hertz

*mid_point_range = 8.037010492393458600000000000000000000000000000E+026 meters

radius = 7.499443030660846100000000000000000000000000000E-009 meters

sphere_energy = 8.695371264563401800000000000000000000000000000E-014 joules

angular freq. w = 3.730148894091096600000000000000000000000000000E-019 Hertz

sphere_energy = 8.695371264563401800000000000000000000000000000E-014 joules

gamma_energy = 7.414874459546733500000000000000000000000000000E-052 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 6.748997492415303600000000000000000000000000000E-008 kg

PROTON coupling_energy = 3.374498746207651800000000000000000000000000000E-008 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.687249373103825900000000000000000000000000000E-008 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -43

exponent_gamma = -169

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 6.4947081789031547000000000000000000000000000000E-009 hertz

*mid_point_range = 4.0185052461967293000000000000000000000000000000E+026 meters

radius = 3.7497215153304231000000000000000000000000000000E-009 meters

sphere_energy = 1.0869214080704252000000000000000000000000000000E-014 joules

angular freq. w = 7.4602977881821933000000000000000000000000000000E-019 Hertz

sphere_energy = 1.0869214080704252000000000000000000000000000000E-014 joules

gamma_energy = 1.4829748919093467000000000000000000000000000000E-051 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.6872493731038259000000000000000000000000000000E-008 kg

PROTON coupling_energy = 8.4362468655191296000000000000000000000000000000E-009 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 4.2181234327595648000000000000000000000000000000E-009 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -46

exponent_gamma = -168

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.247354089451577400000000000000000000000000000E-009 hertz

*mid_point_range = 2.009252623098364600000000000000000000000000000E+026 meters

radius = 1.874860757665211500000000000000000000000000000E-009 meters

sphere_energy = 1.358651760088031500000000000000000000000000000E-015 joules

angular freq. w = 1.492059557636438700000000000000000000000000000E-018 Hertz

sphere_energy = 1.358651760088031500000000000000000000000000000E-015 joules

gamma_energy = 2.965949783818693400000000000000000000000000000E-051 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.218123432759564800000000000000000000000000000E-009 kg

PROTON coupling_energy = 2.109061716379782400000000000000000000000000000E-009 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
1.0545308581898912000000000000000000000000000000E-009 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -49

exponent_gamma = -167

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.623677044725788700000000000000000000000000000E-009 hertz

*mid_point_range = 1.004626311549182300000000000000000000000000000E+026 meters

radius = 9.374303788326057700000000000000000000000000000E-010 meters

sphere_energy = 1.698314700110039400000000000000000000000000000E-016 joules

angular freq. w = 2.984119115272877300000000000000000000000000000E-018 Hertz

sphere_energy = 1.698314700110039400000000000000000000000000000E-016 joules

gamma_energy = 5.931899567637386800000000000000000000000000000E-051 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.0545308581898912000000000000000000000000000000E-009 kg

PROTON coupling_energy = 5.272654290949456000000000000000000000000000000E-010
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
2.6363271454747280000000000000000000000000000000E-010 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -52

exponent_gamma = -166

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 8.1183852236289434000000000000000000000000000000E-010 hertz

*mid_point_range = 5.0231315577459116000000000000000000000000000000E+025 meters

radius = 4.6871518941630288000000000000000000000000000000E-010 meters

sphere_energy = 2.1228933751375493000000000000000000000000000000E-017 joules

angular freq. w = 5.9682382305457546000000000000000000000000000000E-018 Hertz

sphere_energy = 2.1228933751375493000000000000000000000000000000E-017 joules

gamma_energy = 1.1863799135274774000000000000000000000000000000E-050 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.6363271454747280000000000000000000000000000000E-010 kg

PROTON coupling_energy = 1.318163572737364000000000000000000000000000000E-010 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 6.590817863686820000000000000000000000000000000E-011 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -55

exponent_gamma = -165

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 4.059192611814471700000000000000000000000000000E-010 hertz

*mid_point_range = 2.511565778872955800000000000000000000000000000E+025 meters

radius = 2.343575947081514400000000000000000000000000000E-010 meters

sphere_energy = 2.653616718921936600000000000000000000000000000E-018 joules

angular freq. w = 1.193647646109150900000000000000000000000000000E-017 Hertz

sphere_energy = 2.653616718921936600000000000000000000000000000E-018 joules

gamma_energy = 2.372759827054954700000000000000000000000000000E-050 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 6.590817863686820000000000000000000000000000000E-011 kg

PROTON coupling_energy = 3.295408931843410000000000000000000000000000000E-011 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.647704465921705000000000000000000000000000000E-011 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -58

exponent_gamma = -164

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.029596305907235900000000000000000000000000000E-010 hertz

*mid_point_range = 1.255782889436477900000000000000000000000000000E+025 meters

radius = 1.171787973540757200000000000000000000000000000E-010 meters

sphere_energy = 3.317020898652420700000000000000000000000000000E-019 joules

angular freq. w = 2.387295292218301800000000000000000000000000000E-017 Hertz

sphere_energy = 3.317020898652420700000000000000000000000000000E-019 joules

gamma_energy = 4.745519654109909500000000000000000000000000000E-050 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.64770446592170500000000000000000000000000000E-011 kg

PROTON coupling_energy = 8.23852232960852500000000000000000000000000000E-012 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 4.11926116480426250000000000000000000000000000E-012 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -61

exponent_gamma = -163

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.01479815295361790000000000000000000000000000E-010 hertz

*mid_point_range = 6.27891444718238950000000000000000000000000000E+024 meters

radius = 5.85893986770378600000000000000000000000000000E-011 meters

sphere_energy = 4.14627612331552590000000000000000000000000000E-020 joules

angular freq. w = 4.774590584436603700000000000000000000000000000E-017 Hertz

sphere_energy = 4.146276123315525900000000000000000000000000000000E-020 joules

gamma_energy = 9.491039308219818900000000000000000000000000000000E-050 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.119261164804262500000000000000000000000000000E-012 kg

PROTON coupling_energy = 2.059630582402131200000000000000000000000000000E-012 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.029815291201065600000000000000000000000000000E-012 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -64

exponent_gamma = -162

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 5.073990764768089600000000000000000000000000000E-011 hertz

*mid_point_range = 3.139457223591194800000000000000000000000000000E+024 meters

radius = 2.929469933851893000000000000000000000000000000E-011 meters

sphere_energy = 5.182845154144407400000000000000000000000000000E-021 joules

angular freq. w = 9.549181168873207400000000000000000000000000000E-017 Hertz

sphere_energy = 5.182845154144407400000000000000000000000000000E-021 joules

gamma_energy = 1.898207861643963800000000000000000000000000000E-049 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.029815291201065600000000000000000000000000000E-012 kg

PROTON coupling_energy = 5.149076456005328100000000000000000000000000000E-013 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.574538228002664000000000000000000000000000000E-013 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -67

exponent_gamma = -161

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.536995382384044800000000000000000000000000000E-011 hertz

*mid_point_range = 1.569728611795597400000000000000000000000000000E+024 meters

radius = 1.464734966925946500000000000000000000000000000E-011 meters

sphere_energy = 6.478556442680509200000000000000000000000000000E-022 joules

angular freq. w = 1.909836233774641500000000000000000000000000000E-016 Hertz

sphere_energy = 6.478556442680509200000000000000000000000000000E-022 joules

gamma_energy = 3.796415723287927600000000000000000000000000000E-049 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.574538228002664000000000000000000000000000000E-013 kg

PROTON coupling_energy = 1.287269114001332000000000000000000000000000000E-013 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 6.436345570006660100000000000000000000000000000E-014 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -70

exponent_gamma = -160

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.26849769119202240000000000000000000000000000E-011 hertz

*mid_point_range = 7.84864305897798690000000000000000000000000000E+023 meters

radius = 7.32367483462973250000000000000000000000000000E-012 meters

sphere_energy = 8.09819555335063650000000000000000000000000000E-023 joules

angular freq. w = 3.81967246754928300000000000000000000000000000E-016 Hertz

sphere_energy = 8.09819555335063650000000000000000000000000000E-023 joules

gamma_energy = 7.59283144657585510000000000000000000000000000E-049 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 6.43634557000666010000000000000000000000000000E-014 kg

PROTON coupling_energy = 3.21817278500333010000000000000000000000000000E-014 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.60908639250166500000000000000000000000000000E-014 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -73

exponent_gamma = -159

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 6.342488455960112100000000000000000000000000000E-012 hertz

*mid_point_range = 3.924321529488993500000000000000000000000000000E+023 meters

radius = 3.661837417314866300000000000000000000000000000E-012 meters

sphere_energy = 1.012274444168829600000000000000000000000000000E-023 joules

angular freq. w = 7.639344935098565900000000000000000000000000000E-016 Hertz

sphere_energy = 1.012274444168829600000000000000000000000000000E-023 joules

gamma_energy = 1.518566289315171000000000000000000000000000000E-048 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.609086392501665000000000000000000000000000000E-014 kg

PROTON coupling_energy = 8.045431962508325100000000000000000000000000000E-015 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
4.022715981254162600000000000000000000000000000E-015 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -76

exponent_gamma = -158

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.171244227980056000000000000000000000000000000E-012 hertz

*mid_point_range = 1.962160764744496700000000000000000000000000000E+023 meters

radius = 1.830918708657433100000000000000000000000000000E-012 meters

sphere_energy = 1.265343055211037000000000000000000000000000000E-024 joules

angular freq. w = 1.527868987019713200000000000000000000000000000E-015 Hertz

sphere_energy = 1.265343055211037000000000000000000000000000000E-024 joules

gamma_energy = 3.037132578630342100000000000000000000000000000E-048 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.022715981254162600000000000000000000000000000E-015 kg

PROTON coupling_energy = 2.011357990627081300000000000000000000000000000E-015
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
1.00567899531354060000000000000000000000000000E-015 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -79

exponent_gamma = -157

USING LOW HALF OF RANGE =======||||||||||||||||

gamma_wavelength = 1.58562211399002800000000000000000000000000000E-012 hertz

*mid_point_range = 9.81080382372248360000000000000000000000000000E+022 meters

radius = 9.15459354328716570000000000000000000000000000E-013 meters

sphere_energy = 1.58167881901379620000000000000000000000000000E-025 joules

angular freq. w = 3.05573797403942640000000000000000000000000000E-015 Hertz

sphere_energy = 1.58167881901379620000000000000000000000000000E-025 joules

gamma_energy = 6.07426515726068410000000000000000000000000000E-048 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.00567899531354060000000000000000000000000000E-015 kg

PROTON coupling_energy = 5.028394976567703200000000000000000000000000000E-016 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.514197488283851600000000000000000000000000000E-016 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -82

exponent_gamma = -156

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 7.928110569950140100000000000000000000000000000E-013 hertz

*mid_point_range = 4.905401911861241800000000000000000000000000000E+022 meters

radius = 4.577296771643582800000000000000000000000000000E-013 meters

sphere_energy = 1.977098523767245200000000000000000000000000000E-026 joules

angular freq. w = 6.111475948078852700000000000000000000000000000E-015 Hertz

sphere_energy = 1.977098523767245200000000000000000000000000000E-026 joules

gamma_energy = 1.214853031452136800000000000000000000000000000E-047 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.514197488283851600000000000000000000000000000E-016 kg

PROTON coupling_energy = 1.257098744141925800000000000000000000000000000E-016 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 6.285493720709629000000000000000000000000000000E-017 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -85

exponent_gamma = -155

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.964055284975070000000000000000000000000000E-013 hertz

*mid_point_range = 2.452700955930620900000000000000000000000000000E+022 meters

radius = 2.288648385821791400000000000000000000000000000E-013 meters

sphere_energy = 2.471373154709056600000000000000000000000000000E-027 joules

angular freq. w = 1.222295189615770500000000000000000000000000000E-014 Hertz

sphere_energy = 2.471373154709056600000000000000000000000000000E-027 joules

gamma_energy = 2.429706062904273600000000000000000000000000000E-047 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 6.285493720709629000000000000000000000000000000E-017 kg

PROTON coupling_energy = 3.142746860354814500000000000000000000000000000E-017 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.571373430177407300000000000000000000000000000E-017 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -88

exponent_gamma = -154

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.982027642487535000000000000000000000000000000E-013 hertz

*mid_point_range = 1.226350477965310500000000000000000000000000000E+022 meters

radius = 1.144324192910895700000000000000000000000000000E-013 meters

sphere_energy = 3.089216443386320700000000000000000000000000000E-028 joules

angular freq. w = 2.4445903792315411000000000000000000000000000000E-014 Hertz

sphere_energy = 3.0892164433863207000000000000000000000000000000E-028 joules

gamma_energy = 4.8594121258085473000000000000000000000000000000E-047 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.5713734301774073000000000000000000000000000000E-017 kg

PROTON coupling_energy = 7.8568671508870363000000000000000000000000000000E-018 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 3.9284335754435181000000000000000000000000000000E-018 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -91

exponent_gamma = -153

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 9.9101382124376751000000000000000000000000000000E-014 hertz

*mid_point_range = 6.131752389826552300000000000000000000000000000E+021 meters

radius = 5.721620964554478600000000000000000000000000000E-014 meters

sphere_energy = 3.861520554232900900000000000000000000000000000E-029 joules

angular freq. w = 4.889180758463082200000000000000000000000000000E-014 Hertz

sphere_energy = 3.861520554232900900000000000000000000000000000E-029 joules

gamma_energy = 9.718824251617094600000000000000000000000000000E-047 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 3.928433575443518100000000000000000000000000000E-018 kg

PROTON coupling_energy = 1.964216787721759100000000000000000000000000000E-018 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 9.821083938608795300000000000000000000000000000E-019 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -94

exponent_gamma = -152

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 4.955069106218837500000000000000000000000000000E-014 hertz

*mid_point_range = 3.065876194913276100000000000000000000000000000E+021 meters

radius = 2.860810482277239300000000000000000000000000000E-014 meters

sphere_energy = 4.826900692791126100000000000000000000000000000E-030 joules

angular freq. w = 9.778361516926164400000000000000000000000000000E-014 Hertz

sphere_energy = 4.826900692791126100000000000000000000000000000E-030 joules

gamma_energy = 1.943764850323418900000000000000000000000000000E-046 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 9.821083938608795300000000000000000000000000000E-019 kg

PROTON coupling_energy = 4.910541969304397700000000000000000000000000000E-019 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.455270984652198800000000000000000000000000000E-019 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -97

exponent_gamma = -151

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.47753455310941880000000000000000000000000000E-014 hertz

*mid_point_range = 1.53293809745663810000000000000000000000000000E+021 meters

radius = 1.43040524113861960000000000000000000000000000E-014 meters

sphere_energy = 6.03362586598890760000000000000000000000000000E-031 joules

angular freq. w = 1.95567230338523290000000000000000000000000000E-013 Hertz

sphere_energy = 6.03362586598890760000000000000000000000000000E-031 joules

gamma_energy = 3.88752970064683780000000000000000000000000000E-046 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.45527098465219880000000000000000000000000000E-019 kg

PROTON coupling_energy = 1.22763549232609940000000000000000000000000000E-019 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 6.13817746163049710000000000000000000000000000E-020 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -100

exponent_gamma = -150

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.23876727655470940000000000000000000000000000000E-014 hertz

*mid_point_range = 7.66469048728319030000000000000000000000000000000E+020 meters

radius = 7.15202620569309820000000000000000000000000000000E-015 meters

sphere_energy = 7.54203233248613450000000000000000000000000000000E-032 joules

angular freq. w = 3.91134460677046570000000000000000000000000000000E-013 Hertz

sphere_energy = 7.54203233248613450000000000000000000000000000000E-032 joules

gamma_energy = 7.77505940129367570000000000000000000000000000000E-046 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 6.13817746163049710000000000000000000000000000000E-020 kg

PROTON coupling_energy = 3.06908873081524850000000000000000000000000000000E-020 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
1.534544365407624300000000000000000000000000000E-020 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -103

exponent_gamma = -149

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 6.193836382773546900000000000000000000000000000E-015 hertz

*mid_point_range = 3.832345243641595200000000000000000000000000000E+020 meters

radius = 3.576013102846549100000000000000000000000000000E-015 meters

sphere_energy = 9.427540415607668200000000000000000000000000000E-033 joules

angular freq. w = 7.822689213540931500000000000000000000000000000E-013 Hertz

sphere_energy = 9.427540415607668200000000000000000000000000000E-033 joules

gamma_energy = 1.555011880258735100000000000000000000000000000E-045 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.534544365407624300000000000000000000000000000E-020 kg

PROTON coupling_energy = 7.672721827038121400000000000000000000000000000E-021
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
3.836360913519060700000000000000000000000000000E-021 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -106

exponent_gamma = -148

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.096918191386773500000000000000000000000000000E-015 hertz

*mid_point_range = 1.916172621820797600000000000000000000000000000E+020 meters

radius = 1.788006551423274500000000000000000000000000000E-015 meters

sphere_energy = 1.178442551950958500000000000000000000000000000E-033 joules

angular freq. w = 1.564537842708186300000000000000000000000000000E-012 Hertz

sphere_energy = 1.178442551950958500000000000000000000000000000E-033 joules

gamma_energy = 3.110023760517470300000000000000000000000000000E-045 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 3.836360913519060700000000000000000000000000000E-021 kg

PROTON coupling_energy = 1.9181804567595303000000000000000000000000000000E-021 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 9.5909022837976517000000000000000000000000000000E-022 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -109

exponent_gamma = -147

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.5484590956933867000000000000000000000000000000E-015 hertz

*mid_point_range = 9.5808631091039879000000000000000000000000000000E+019 meters

radius = 8.9400327571163727000000000000000000000000000000E-016 meters

sphere_energy = 1.4730531899386981000000000000000000000000000000E-034 joules

angular freq. w = 3.1290756854163726000000000000000000000000000000E-012 Hertz

sphere_energy = 1.4730531899386981000000000000000000000000000000E-034 joules

gamma_energy = 6.2200475210349405000000000000000000000000000000E-045 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 9.590902283797651700000000000000000000000000000E-022 kg

PROTON coupling_energy = 4.795451141898825900000000000000000000000000000E-022 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.397725570949412900000000000000000000000000000E-022 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -112

exponent_gamma = -146

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 7.742295478466933700000000000000000000000000000E-016 hertz

*mid_point_range = 4.790431554551994000000000000000000000000000000E+019 meters

radius = 4.470016378558186400000000000000000000000000000E-016 meters

sphere_energy = 1.841316487423372700000000000000000000000000000E-035 joules

angular freq. w = 6.258151370832745200000000000000000000000000000E-012 Hertz

sphere_energy = 1.841316487423372700000000000000000000000000000E-035 joules

gamma_energy = 1.244009504206988100000000000000000000000000000E-044 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.39772557094941290000000000000000000000000000E-022 kg

PROTON coupling_energy = 1.19886278547470650000000000000000000000000000E-022 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 5.99431392737353230000000000000000000000000000E-023 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -115

exponent_gamma = -145

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.87114773923346680000000000000000000000000000E-016 hertz

*mid_point_range = 2.39521577727599700000000000000000000000000000E+019 meters

radius = 2.23500818927909320000000000000000000000000000E-016 meters

sphere_energy = 2.30164560927921590000000000000000000000000000E-036 joules

angular freq. w = 1.25163027416654900000000000000000000000000000E-011 Hertz

sphere_energy = 2.30164560927921590000000000000000000000000000E-036 joules

gamma_energy = 2.48801900841397620000000000000000000000000000E-044 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 5.99431392737353230000000000000000000000000000E-023 kg

PROTON coupling_energy = 2.99715696368676620000000000000000000000000000E-023 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.49857848184338310000000000000000000000000000E-023 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -118

exponent_gamma = -144

USING LOW HALF OF RANGE =======|||||||||||||||

gamma_wavelength = 1.93557386961673340000000000000000000000000000E-016 hertz

*mid_point_range = 1.19760788863799850000000000000000000000000000E+019 meters

radius = 1.11750409463954660000000000000000000000000000E-016 meters

sphere_energy = 2.87705701159901980000000000000000000000000000E-037 joules

angular freq. w = 2.50326054833309810000000000000000000000000000E-011 Hertz

sphere_energy = 2.87705701159901980000000000000000000000000000E-037 joules

gamma_energy = 4.97603801682795240000000000000000000000000000E-044 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.49857848184338310000000000000000000000000000E-023 kg

PROTON coupling_energy = 7.49289240921691540000000000000000000000000000E-024 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 3.74644620460845770000000000000000000000000000E-024 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -121

exponent_gamma = -143

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 9.677869348083667100000000000000000000000000000E-017 hertz

*mid_point_range = 5.988039443189992400000000000000000000000000000E+018 meters

radius = 5.587520473197733000000000000000000000000000000E-017 meters

sphere_energy = 3.596321264498774800000000000000000000000000000E-038 joules

angular freq. w = 5.006521096666196200000000000000000000000000000E-011 Hertz

sphere_energy = 3.596321264498774800000000000000000000000000000E-038 joules

gamma_energy = 9.952076033655904800000000000000000000000000000E-044 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 3.746446204608457700000000000000000000000000000E-024 kg

PROTON coupling_energy = 1.873223102304228800000000000000000000000000000E-024 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 9.366115511521144200000000000000000000000000000E-025 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -124

exponent_gamma = -142

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 4.8389346740418335000000000000000000000000000000E-017 hertz

*mid_point_range = 2.9940197215949962000000000000000000000000000000E+018 meters

radius = 2.7937602365988665000000000000000000000000000000E-017 meters

sphere_energy = 4.4954015806234685000000000000000000000000000000E-039 joules

angular freq. w = 1.0013042193332392000000000000000000000000000000E-010 Hertz

sphere_energy = 4.4954015806234685000000000000000000000000000000E-039 joules

gamma_energy = 1.9904152067311810000000000000000000000000000000E-043 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 9.3661155115211442000000000000000000000000000000E-025 kg

PROTON coupling_energy = 4.6830577557605721000000000000000000000000000000E-025 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.3415288778802861000000000000000000000000000000E-025 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -127

exponent_gamma = -141

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.419467337020916800000000000000000000000000000E-017 hertz

*mid_point_range = 1.497009860797498100000000000000000000000000000E+018 meters

radius = 1.396880118299433200000000000000000000000000000E-017 meters

sphere_energy = 5.619251975779335600000000000000000000000000000E-040 joules

angular freq. w = 2.002608438666478500000000000000000000000000000E-010 Hertz

sphere_energy = 5.619251975779335600000000000000000000000000000E-040 joules

gamma_energy = 3.980830413462361900000000000000000000000000000E-043 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.341528877880286100000000000000000000000000000E-025 kg

PROTON coupling_energy = 1.170764438940143000000000000000000000000000000E-025 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
5.85382219470071520000000000000000000000000000000E-026 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -130

exponent_gamma = -140

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 1.20973366851045840000000000000000000000000000000E-017 hertz

*mid_point_range = 7.48504930398749060000000000000000000000000000000E+017 meters

radius = 6.98440059149716620000000000000000000000000000000E-018 meters

sphere_energy = 7.02406496972416950000000000000000000000000000000E-041 joules

angular freq. w = 4.00521687733295690000000000000000000000000000000E-010 Hertz

sphere_energy = 7.02406496972416950000000000000000000000000000000E-041 joules

gamma_energy = 7.96166082692472390000000000000000000000000000000E-043 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 5.85382219470071520000000000000000000000000000000E-026 kg

PROTON coupling_energy = 2.92691109735035760000000000000000000000000000000E-026
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
1.463455548675178800000000000000000000000000000E-026 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -133

exponent_gamma = -139

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 6.048668342552291900000000000000000000000000000E-018 hertz

*mid_point_range = 3.742524651993745300000000000000000000000000000E+017 meters

radius = 3.492200295748583100000000000000000000000000000E-018 meters

sphere_energy = 8.780081212155211900000000000000000000000000000E-042 joules

angular freq. w = 8.010433754665913800000000000000000000000000000E-010 Hertz

sphere_energy = 8.780081212155211900000000000000000000000000000E-042 joules

gamma_energy = 1.592332165384944800000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.463455548675178800000000000000000000000000000E-026 kg

PROTON coupling_energy = 7.3172777433758939000000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 3.6586388716879470000000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -136

exponent_gamma = -138

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.024334171276146000000000000000000000000000000E-018 hertz

*mid_point_range = 1.871262325996872600000000000000000000000000000E+017 meters

radius = 1.746100147874291600000000000000000000000000000E-018 meters

sphere_energy = 1.097510151519401500000000000000000000000000000E-042 joules

angular freq. w = 1.602086750933182800000000000000000000000000000E-009 Hertz

sphere_energy = 1.097510151519401500000000000000000000000000000E-042 joules

gamma_energy = 3.184664330769889500000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 3.658638871687947000000000000000000000000000000000E-027 kg

PROTON coupling_energy = 1.829319435843973500000000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 9.146597179219867400000000000000000000000000000000E-028 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -139

exponent_gamma = -137

USING HIGH HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 4.536501256914218200000000000000000000000000000000E-018 hertz

*mid_point_range = 2.806893488995308800000000000000000000000000000000E+017 meters

radius = 2.619150221811436700000000000000000000000000000000E-018 meters

sphere_energy = 3.704096761377977700000000000000000000000000000000E-042 joules

angular freq. w = 1.068057833955455200000000000000000000000000000000E-009 Hertz

sphere_energy = 3.704096761377977700000000000000000000000000000000E-042 joules

gamma_energy = 2.123109553846592900000000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 8.231937461297877500000000000000000000000000000E-027 kg

PROTON coupling_energy = 4.115968730648938700000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.057984365324469400000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -137

exponent_gamma = -138

USING LOW HALF OF RANGE =======|||||||||||||||

gamma_wavelength = 2.268250628457109100000000000000000000000000000E-018 hertz

*mid_point_range = 1.403446744497654400000000000000000000000000000E+017 meters

radius = 1.309575110905718400000000000000000000000000000E-018 meters

sphere_energy = 4.630120951722472200000000000000000000000000000E-043 joules

angular freq. w = 2.13611566791091050000000000000000000000000000E-009 Hertz

sphere_energy = 4.63012095172247220000000000000000000000000000E-043 joules

gamma_energy = 4.24621910769318590000000000000000000000000000E-042 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.05798436532446940000000000000000000000000000E-027 kg

PROTON coupling_energy = 1.02899218266223470000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 5.14496091331117340000000000000000000000000000E-028 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -140

exponent_gamma = -137

USING HIGH HALF OF RANGE =======|||||||||||||||

gamma_wavelength = 3.40237594268566360000000000000000000000000000E-018 hertz

*mid_point_range = 2.10517011674648160000000000000000000000000000E+017 meters

radius = 1.96436266635857760000000000000000000000000000E-018 meters

sphere_energy = 1.56266582120633470000000000000000000000000000E-042 joules

angular freq. w = 1.42407711194060690000000000000000000000000000E-009 Hertz

sphere_energy = 1.56266582120633470000000000000000000000000000E-042 joules

gamma_energy = 2.83081273846212390000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.63046482198005660000000000000000000000000000E-027 kg

PROTON coupling_energy = 2.31523241099002830000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.15761620549501420000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -138

exponent_gamma = -138

USING HIGH HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 5.10356391402849580000000000000000000000000000000E-018 hertz

*mid_point_range = 3.15775517511972220000000000000000000000000000000E+017 meters

radius = 2.94654399953786630000000000000000000000000000000E-018 meters

sphere_energy = 5.27399714657137810000000000000000000000000000000E-042 joules

angular freq. w = 9.49384741293738090000000000000000000000000000000E-010 Hertz

sphere_energy = 5.27399714657137810000000000000000000000000000000E-042 joules

gamma_energy = 1.88720849230808280000000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.04185458494551260000000000000000000000000000000E-026 kg

PROTON coupling_energy = 5.20927292472756300000000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.60463646236378150000000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -137

exponent_gamma = -138

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.55178195701424790000000000000000000000000000E-018 hertz

*mid_point_range = 1.57887758755986110000000000000000000000000000E+017 meters

radius = 1.47327199976893320000000000000000000000000000E-018 meters

sphere_energy = 6.59249643321422260000000000000000000000000000E-043 joules

angular freq. w = 1.89876948258747620000000000000000000000000000E-009 Hertz

sphere_energy = 6.59249643321422260000000000000000000000000000E-043 joules

gamma_energy = 3.77441698461616560000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.60463646236378150000000000000000000000000000E-027 kg

PROTON coupling_energy = 1.30231823118189070000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 6.51159115590945370000000000000000000000000000E-028 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -140

exponent_gamma = -137

USING HIGH HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.827672935521371700000000000000000000000000000E-018 hertz

*mid_point_range = 2.368316381339791700000000000000000000000000000E+017 meters

radius = 2.209907999653399700000000000000000000000000000E-018 meters

sphere_energy = 2.224967546209800300000000000000000000000000000E-042 joules

angular freq. w = 1.265846321724984100000000000000000000000000000E-009 Hertz

sphere_energy = 2.224967546209800300000000000000000000000000000E-042 joules

gamma_energy = 2.516277989744110400000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 5.860432040318508400000000000000000000000000000E-027 kg

PROTON coupling_energy = 2.930216020159254200000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
1.4651080100796271000000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -138

exponent_gamma = -138

USING HIGH HALF OF RANGE =======|||||||||||||||

gamma_wavelength = 5.7415094032820575000000000000000000000000000000E-018 hertz

*mid_point_range = 3.5524745720096877000000000000000000000000000000E+017 meters

radius = 3.3148619994800995000000000000000000000000000000E-018 meters

sphere_energy = 7.5092654684580758000000000000000000000000000000E-042 joules

angular freq. w = 8.4389754781665605000000000000000000000000000000E-010 Hertz

sphere_energy = 7.5092654684580758000000000000000000000000000000E-042 joules

gamma_energy = 1.6775186598294071000000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.3185972090716644000000000000000000000000000000E-026 kg

PROTON coupling_energy = 6.5929860453583220000000000000000000000000000000E-027
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
3.296493022679161000000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -136

exponent_gamma = -138

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.870754701641028800000000000000000000000000000E-018 hertz

*mid_point_range = 1.776237286004843800000000000000000000000000000E+017 meters

radius = 1.657430999740049700000000000000000000000000000E-018 meters

sphere_energy = 9.386581835572594800000000000000000000000000000E-043 joules

angular freq. w = 1.687795095633312100000000000000000000000000000E-009 Hertz

sphere_energy = 9.386581835572594800000000000000000000000000000E-043 joules

gamma_energy = 3.355037319658814100000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 3.296493022679161000000000000000000000000000000E-027 kg

PROTON coupling_energy = 1.64824651133958050000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 8.24123255669790250000000000000000000000000000E-028 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -139

exponent_gamma = -137

USING HIGH HALF OF RANGE =======|||||||||||||||

gamma_wavelength = 4.30613205246154310000000000000000000000000000E-018 hertz

*mid_point_range = 2.66435592900726590000000000000000000000000000E+017 meters

radius = 2.48614649961007450000000000000000000000000000E-018 meters

sphere_energy = 3.16797136950575020000000000000000000000000000E-042 joules

angular freq. w = 1.12519673042220800000000000000000000000000000E-009 Hertz

sphere_energy = 3.16797136950575020000000000000000000000000000E-042 joules

gamma_energy = 2.23669154643920940000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000009999999999999986000000000000000000000 Hertz

PROTON coupling_energy = 7.417109301028111700000000000000000000000000000000E-027 kg

PROTON coupling_energy = 3.708554650514055800000000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.854277325257027900000000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -137

exponent_gamma = -138

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.153066026230771600000000000000000000000000000000E-018 hertz

*mid_point_range = 1.332177964503633000000000000000000000000000000000E+017 meters

radius = 1.243073249805037300000000000000000000000000000000E-018 meters

sphere_energy = 3.959964211882187700000000000000000000000000000000E-043 joules

angular freq. w = 2.250393460844416000000000000000000000000000000000E-009 Hertz

sphere_energy = 3.959964211882187700000000000000000000000000000000E-043 joules

gamma_energy = 4.473383092878418800000000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000009999999999999986000000000000000000000 Hertz

PROTON coupling_energy = 1.85427732525702790000000000000000000000000000000E-027 kg

PROTON coupling_energy = 9.27138662628513960000000000000000000000000000000E-028 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 4.63569331314256980000000000000000000000000000000E-028 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -140

exponent_gamma = -137

USING HIGH HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.22959903934615770000000000000000000000000000000E-018 hertz

*mid_point_range = 1.99826694675544960000000000000000000000000000000E+017 meters

radius = 1.86460987470755610000000000000000000000000000000E-018 meters

sphere_energy = 1.33648792151023860000000000000000000000000000000E-042 joules

angular freq. w = 1.50026230722961050000000000000000000000000000E-009 Hertz

sphere_energy = 1.33648792151023860000000000000000000000000000E-042 joules

gamma_energy = 2.98225539525227840000000000000000000000000000E-042 joules

f_particle_SA   = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 4.17212398182831340000000000000000000000000000E-027 kg

PROTON coupling_energy = 2.08606199091415670000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.04303099545707830000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -139

exponent_gamma = -137

USING HIGH HALF OF RANGE =======|||||||||||||||

gamma_wavelength = 4.84439855901923660000000000000000000000000000E-018 hertz

*mid_point_range = 2.997400420133174400000000000000000000000000000E+017 meters

radius = 2.796914812061334300000000000000000000000000000E-018 meters

sphere_energy = 4.510646735097056600000000000000000000000000000E-042 joules

angular freq. w = 1.000174871486407000000000000000000000000000000E-009 Hertz

sphere_energy = 4.510646735097056600000000000000000000000000000E-042 joules

gamma_energy = 1.988170263501519100000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 9.387278959113706100000000000000000000000000000E-027 kg

PROTON coupling_energy = 4.693639479556853100000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 2.346819739778426500000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -137

exponent_gamma = -138

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.42219927950961830000000000000000000000000000E-018 hertz

*mid_point_range = 1.49870021006658720000000000000000000000000000E+017 meters

radius = 1.39845740603066720000000000000000000000000000E-018 meters

sphere_energy = 5.63830841887132080000000000000000000000000000E-043 joules

angular freq. w = 2.00034974297281400000000000000000000000000000E-009 Hertz

sphere_energy = 5.63830841887132080000000000000000000000000000E-043 joules

gamma_energy = 3.97634052700303820000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.34681973977842650000000000000000000000000000E-027 kg

PROTON coupling_energy = 1.17340986988921330000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 5.86704934944606630000000000000000000000000000E-028 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -140

exponent_gamma = -137

USING HIGH HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 3.6332989192644276000000000000000000000000000000E-018 hertz

*mid_point_range = 2.2480503150998810000000000000000000000000000000E+017 meters

radius = 2.0976861090460008000000000000000000000000000000E-018 meters

sphere_energy = 1.9029290913690711000000000000000000000000000000E-042 joules

angular freq. w = 1.3335664953152091000000000000000000000000000000E-009 Hertz

sphere_energy = 1.9029290913690711000000000000000000000000000000E-042 joules

gamma_energy = 2.6508936846686915000000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 5.2803444145014612000000000000000000000000000000E-027 kg

PROTON coupling_energy = 2.6401722072507306000000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.3200861036253653000000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -138

exponent_gamma = -138

USING HIGH HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 5.44994837889664150000000000000000000000000000000E-018 hertz

*mid_point_range = 3.37207547264982140000000000000000000000000000000E+017 meters

radius = 3.14652916356900130000000000000000000000000000000E-018 meters

sphere_energy = 6.42238568337061420000000000000000000000000000000E-042 joules

angular freq. w = 8.89044330210139460000000000000000000000000000000E-010 Hertz

sphere_energy = 6.42238568337061420000000000000000000000000000000E-042 joules

gamma_energy = 1.76726245644579470000000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000010000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 1.18807749326282870000000000000000000000000000000E-026 kg

PROTON coupling_energy = 5.94038746631414330000000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
2.97019373315707160000000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -136

exponent_gamma = -138

USING LOW HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 2.72497418944832070000000000000000000000000000000E-018 hertz

*mid_point_range = 1.68603773632491070000000000000000000000000000000E+017 meters

radius = 1.57326458178450060000000000000000000000000000000E-018 meters

sphere_energy = 8.02798210421326770000000000000000000000000000000E-043 joules

angular freq. w = 1.77808866042027890000000000000000000000000000000E-009 Hertz

sphere_energy = 8.02798210421326770000000000000000000000000000000E-043 joules

gamma_energy = 3.53452491289158930000000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.00000001000000000000000000000000000000000000000 Hertz

PROTON coupling_energy = 2.97019373315707160000000000000000000000000000000E-027 kg

PROTON coupling_energy = 1.48509686657853580000000000000000000000000000000E-027
kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy =
7.42548433289267910000000000000000000000000000000E-028 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -139

exponent_gamma = -137

USING HIGH HALF OF RANGE =======|||||||||||||||||

gamma_wavelength = 4.08746128417248150000000000000000000000000000000E-018 hertz

*mid_point_range = 2.52905660448736610000000000000000000000000000000E+017 meters

radius = 2.35989687267675130000000000000000000000000000000E-018 meters

sphere_energy = 2.70944396017197930000000000000000000000000000000E-042 joules

angular freq. w = 1.18539244028018600000000000000000000000000000000E-009 Hertz

sphere_energy = 2.70944396017197930000000000000000000000000000000E-042 joules

gamma_energy = 2.35634994192772640000000000000000000000000000000E-042 joules

f_particle_SA = f_particle_SA ,

f_particle_size

= f_particle_size

coupling_energy = f_particle_size

f_particle_size = 0.000000009999999999999986000000000000000000 Hertz

PROTON coupling_energy = 6.68293589960341410000000000000000000000000000000E-027 kg

PROTON coupling_energy = 3.341467949801707100000000000000000000000000000E-027 kg

THE NEXT VALUE IS THE MASS OF THE PROTON

PROTON coupling_energy = 1.670733974900853500000000000000000000000000000E-027 kg

FINISHED RUN

THE MASS IS CREATED BY THE COUPLING ENERGY WHICH SHALL BE

EXPLAINEED IN MORE DETAIL SHORTLY

STARTING COMPUTER RUN TO FIND THE EQUILIBRIUM POINT

exponent_sphere = -138

exponent_gamma = -138

ENERGY DIFFERENCE IS 3.530940182442528700000000000000000000000000000E-043 JOULES LOWER FROM THE GAMMA RAYS

ENERGY DIFFERENCE IS 6.626075500000000000000000000000000000000000000E-034 PLANCK UNITS LOWER FROM THE GAMMA RAYS

ENERGY DIFFERENCE IS 5.328855945638604400000000000000000000000000000E-078 IN PLANCK UNITS LOWER FROM THE GAMMA RAYS

sphere_energy = 2.709443960171979300000000000000000000000000000E-042 joules

gamma_energy = 2.709443960171979300000000000000000000000000000E-042 joules

sphere_mass = 3.014662974159490600000000000000000000000000000E-059 kg

Press any key to continuea