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center of mass wikipedia May 19 2019 in physics the center of mass of a distribution of mass in space sometimes referred to as the balance point is the unique point where the weighted relative position of the distributed mass sums to zero this is the point to which a force may be applied to cause a linear acceleration without an angular acceleration calculations in mechanics are often simplified when formulated

hydrogen like atom wikipedia Aug 14 2021 schrödinger solution in the solution to the schrödinger equation which is non relativistic hydrogen like atomic orbitals are eigenfunctions of the one electron angular momentum operator  $L$  and its  $z$  component  $L_z$  a hydrogen like atomic orbital is uniquely identified by the values of the principal quantum number  $n$  the angular momentum quantum number  $l$  and the magnetic

**closed timelike curve wikipedia** Mar 09 2021 in mathematical physics a closed timelike curve ctc is a world line in a lorentzian manifold of a material particle in spacetime that is closed returning to its starting point this possibility was first discovered by willem jacob van stockum in 1937 and later confirmed by kurt gödel in 1949 who discovered a solution to the equations of general relativity gr allowing ctcs

schrödinger equation wikipedia Jun 12 2021 the schrödinger equation is a linear partial differential equation that governs the wave function of a quantum mechanical system 1 2 it is a key result in quantum mechanics and its discovery was a significant landmark in the development of the subject the equation is named after erwin schrödinger who postulated the equation in 1925 and published it in 1926 forming the basis

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neutron wikipedia Dec 26 2019 the neutron is a subatomic particle symbol  $n$  or  $n^0$  which has a neutral not positive or negative charge and a

mass slightly greater than that of a proton protons and neutrons constitute the nuclei of atoms since protons and neutrons behave similarly within the nucleus and each has a mass of approximately one atomic mass unit they are both referred to as nucleons

**black body wikipedia** Dec 06 2020 a black body or blackbody is an idealized physical body that absorbs all incident electromagnetic radiation regardless of frequency or angle of incidence the name black body is given because it absorbs all colors of light a black body also emits black body radiation in contrast a white body is one with a rough surface that reflects all incident rays completely and

superconductivity wikipedia Feb 08 2021 superconductivity is a set of physical properties observed in certain materials where electrical resistance vanishes and magnetic flux fields are expelled from the material any material exhibiting these properties is a superconductor unlike an ordinary metallic conductor whose resistance decreases gradually as its temperature is lowered even down to near absolute zero

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**rare earth hypothesis wikipedia** Apr 29 2020 the rare earth hypothesis argues that the evolution of biological complexity anywhere in the universe requires the coincidence of a large number of fortuitous circumstances including among others a galactic habitable zone a central star and planetary system having the requisite character i e a circumstellar habitable zone a terrestrial planet of the right mass the

wormhole wikipedia Jul 13 2021 a wormhole einstein rosen bridge is a speculative structure connecting disparate points in spacetime and is based on a special solution of the einstein field equations a wormhole can be visualized as a tunnel with two ends at separate points in spacetime i e different locations different points in time or both

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time travel wikipedia May 23 2022 time travel is the concept of movement between certain points in time analogous to movement between different points in space by an object or a person typically with the use of a hypothetical device known as a time machine time travel is a widely recognized concept in philosophy and fiction particularly science fiction the idea of a time machine was popularized by h g wells

wave function wikipedia Jan 27 2020 a wave function in quantum physics is a mathematical description of the quantum state of an isolated quantum system the wave function is a complex valued probability amplitude and the probabilities for the possible results of measurements

made on the system can be derived from it the most common symbols for a wave function are the greek letters  $\psi$  and  $\psi$  lower case

*frank j tipler wikipedia* Apr 22 2022 frank jennings tipler born february 1 1947 is an american mathematical physicist and cosmologist holding a joint appointment in the departments of mathematics and physics at tulane university tipler has written books and papers on the omega point based on pierre teilhard de chardin s religious ideas which he claims is a mechanism for the resurrection of

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*kerr metric wikipedia* May 11 2021 overview the kerr metric is a generalization to a rotating body of the schwarzschild metric discovered by karl schwarzschild in 1915 which described the geometry of spacetime around an uncharged spherically symmetric and non rotating body the corresponding solution for a charged spherical non rotating body the reissner nordström metric was discovered soon

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dimensional analysis wikipedia Nov 24 2019 in engineering and science dimensional analysis is the analysis of the relationships between different physical quantities by identifying their base quantities such as length mass time and electric current and units of measure such as miles vs kilometres or pounds vs kilograms and tracking these dimensions as calculations or comparisons are performed

eureka word wikipedia Sep 15 2021 etymology eureka comes from the ancient greek word εὕρηκα meaning i have found it which is the first person singular perfect indicative active of the verb εὕρισκω i find it is closely related to heuristic which refers to experience based techniques for problem solving learning and discovery pronunciation the accent of the english word is on

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electron wikipedia Jul 21 2019 the electron  $e$  or  $e^-$  is a subatomic particle with a negative one elementary electric charge electrons belong to the first generation of the lepton particle family and are generally thought to be elementary particles because they have no known components or substructure the electron's mass is approximately  $1/1836$  that of the proton quantum mechanical properties of the

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harmonic oscillator wikipedia Oct 28 2022 the general solution is a sum of a transient solution that depends on initial conditions and a steady state that is independent of initial conditions and depends only on the driving amplitude tipler paul 1998 physics for scientists and engineers vol 1 4th ed w h freeman

coulomb's law wikipedia Apr 17 2019 coulomb's inverse square law or simply coulomb's law is an experimental law of physics that quantifies the amount of force between two stationary electrically charged particles the electric force between charged bodies at rest is conventionally called electrostatic force or coulomb force although the law was known earlier it was first published in 1785 by french physicist charles

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