

The Matter Antimatter Concept Revisited

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The Matter Antimatter Concept Revisited

The matter-antimatter concept revisited. Link/Page Citation 1 Introduction The original wave function first predicted by Louis de Broglie [1] in his famous Wave Mechanics Theory, then was detected in 1927 by the American physicists Davisson and Germer in their famous experiment on electrons diffraction by a nickel crystal lattice. ...

The matter-antimatter concept revisited. - Free Online Library

Within his Double Solution Theory, de Broglie re-interprets Dirac's aether concept which was an early attempt to describe the matter-antimatter symmetry. In this new approach, de Broglie suggests...

(PDF) The Matter-Antimatter Concept Revisited

The Matter-Antimatter Concept Revisited Patrick Marquet Postal address: 7, rue du 11 nov, 94350 Villiers/Seine, Paris, France Email: patrick.marquet6@wanadoo.fr In this paper, we briefly review the theory elaborated by Louis de Broglie who showed that in some circumstances, a particle tunneling through a dispersive refracting material

The Matter-Antimatter Concept Revisited

The Matter-Antimatter Concept Revisited . By Marquet P. Abstract. In this paper, we briefly review the theory elaborated by Louis de Broglie who showed that in some circumstances, a particle tunneling through a dispersive refracting material may reverse its velocity with respect to that of its associated wave (phase velocity): this is a ...

The Matter-Antimatter Concept Revisited - CORE

Within his/ud "Double Solution Theory", de Broglie re-interprets Dirac's aether concept which was/ud an early attempt to describe the matter-antimatter symmetry. In this new approach,/ud de Broglie suggests that the (hidden) sub-quantum medium required by his theory be/ud likened to the dispersive and refracting material with identical properties.

The Matter-Antimatter Concept Revisited - CORE

Matter and antimatter are thought to be identical except for a reversed electrical charge. Neutrinos, having no charge, could be both at the same time. If this possibility is the case, it could...

Antimatter Discovery Reveals Clues about the Universe's ...

Antimatter is sometimes called the mirror image of normal matter because while it looks just like ordinary matter, some properties are reversed. For example, normal electrons, the familiar particles that carry electric current in everything from cell phones to plasma TVs, have a negative electric charge.

NASA - New and Improved Antimatter Spaceship for Mars Missions

The Big Bang should have created equal amounts of matter and antimatter in the early universe. But today, everything we see from the smallest life forms on Earth to the largest stellar objects is made almost entirely of matter. Comparatively, there is not much antimatter to be found. Something must have happened to tip the balance.

The matter-antimatter asymmetry problem | CERN

Definitions. Antimatter particles can be defined by their negative baryon number or lepton number, while "normal" (non-antimatter) matter particles have a positive baryon or lepton number. These two classes of particles are the antiparticle partners of each other. A "positron" is the antimatter equivalent of the "electron".. The French term contra-terrene led to the initialism "C.T." and the ...

Antimatter - Wikipedia

Antimatter, substance composed of subatomic particles that have the mass, electric charge, and magnetic moment of the electrons, protons, and neutrons of ordinary matter but for which the electric charge and magnetic moment are opposite in sign.

Antimatter | physics | Britannica

Antimatter is exactly what you might think it is -- the opposite of normal matter, of which the majority of our universe is made. Until just recently, the presence of antimatter in our universe was considered to be only theoretical. In 1928, British physicist Paul A.M. Dirac revised Einstein's famous equation E=mc².

How Antimatter Spacecraft Will Work | HowStuffWorks

Antimatter is subdivided in the same manner as matter, both having electrical charges and magnetic moments. However, antiparticles' electrical charges and magnetic moments are the opposite of particles'. For example, an electron is a particle of matter, and a positron is its antimatter twin.

What Is Antimatter? | Britannica

The basic difference between matter and antimatter is that they have opposite charges. A proton has a positive charge, while an antiproton a negative one. Positively charged positrons are the...

What Would An Antimatter Universe Look Like?

Antimatter is simply, the opposite of the ordinary matter. Antimatter is composed of antiparticles whereas ordinary matter is composed of particles. The mass of a given particle and its antiparticle is the same, yet some of the characteristics such as the charge, magnetic moment, spin, baryon number and lepton number have opposite signs.

Difference Between Antimatter and Dark Matter

The only reasons I'd consider this "anti-matter" concept to be analogous to the present use of the term "antimatter", rather than exclusively referring to what we'd now call "exotic matter", are that 1) he touched on the idea of quantum numbers summing to zero, though this predates any formal concept of quantum numbers, 2) in paragraph 4, he ...

Talk:Antimatter/Archive 2 - Wikipedia

Dark matter (antimatter in our mirror universe) interacts via gravity with the matter in our universe, whereas Earth's matter interacts locally with the Earth's traces of antimatter. In the latter case the strength of the gravitational field would depend on the Earth's mass and the masses of the antimatter particle. 3.

Is dark matter tangible? - Quora

Earth-Three (also referred to as Earth-3 and Earth 3) is a fictional alternate universe set in the DC Comics Multiverse. Earth-Three is a "partially-reversed" Earth, where supervillainous counterparts of the mainstream DC superheroes reside. It first appeared in Justice League of America #29 (1964), and the concept has been rebooted several times.

Earth-Three - Wikipedia

Matter antimatter symmetry is one of the most fundamental problems in particle physics and also in cosmology in relation with the Big Bang. That is why there are dedicated experiments to study this aspect of the fundamental physics known under the name of CPT symmetry.