

Welcome back and as we celebrate the 181st anniversary of Galileo Galilei's death we make this edition of our 10 edition special concentrating on the topic: What don't we yet know ? about The Matter-Antimatter asymmetry, one of the biggest unsolved mysteries in physics and a key topic that reveals the incomplete aspect of our standard model of matter.

## What is Antimatter ?

Antimatter particles, as weird as it sounds are just like "normal" particles but the difference is they have opposite charge. For example a positron is the antimatter cousin of the electron and is hence a positively charged electron. "Positron" An antiproton is a negatively charged proton that is the result of having antiquarks instead of quarks. Remember that quarks are elementary particles that are the building blocks of protons and neutrons. (for a visual representation see figure 1.) [\[source\]](https://www.sciencedirect.com/science/article/pii/S0370223103000271)

A simple difference with grave consequences. If an Antimatter particle and a matter particle meet, they annihilate each other and release significant amounts of energy. In fact, so much energy that half a gram of antimatter and matter colliding would have the same power as the atomic bomb dropped on Hiroshima. [\[source\]](https://www.sciencedirect.com/science/article/pii/S0370223103000271)

Scary right? Well don't stay up at night because antimatter is extremely rare, and it's only found in tiny quantities. The question is why? Because we think it should *not* be. That is where the incredibly reliable standard model of matter falls short, it doesn't show us why. In fact it predicts that there should be as much antimatter as there is normal matter. [\[source\]](https://www.sciencedirect.com/science/article/pii/S0370223103000271) This leads us to think there may be entire sections of our SM (standard model) that have not been discovered. Anyway, more on that later... Back to antimatter, these anti-particles can combine to form antimatter, for example an antiproton and a positron (remember an antielectron is commonly known as a positron) can form an antihydrogen atom just like an electron and a proton form an atom of hydrogen. We are nearly certain that everything is identical between the two except the charge. We say nearly because as science has proven time and time again, there are many surprises and we have not conducted nearly enough experiments yet to be sure.

[\[source\]](https://www.sciencedirect.com/science/article/pii/S0370223103000271) The mass of a proton is significantly greater than the mass of an electron ( 1836 times to be exact) [\[source\]](https://www.sciencedirect.com/science/article/pii/S0370223103000271) and remember that positrons have the same mass as an electron so there is the first big difference, on top of this electrons and positrons are elementary matter ( Not made up of anything else ) whilst protons are not elementary particles, they are made up of quarks.

## The Asymmetry

As we said our much cherished Standard model of matter predicts that during the Big Bang equal amounts of matter and antimatter should have been produced. [\[source\]](https://www.sciencedirect.com/science/article/pii/S0370223103000271) However if the next few years Simple right? But like we said with the annihilation between matter and antimatter would leave nothing left except energy ( Gamma rays to be precise ). So that is our issue, according to the SM we should not be here. But we are here and we have a few ideas of what could of happened. The first and most stunning is that it's just not somewhere [in] being, theoretically there could be entire galaxies made of antimatter where civilisations are speculating what happened to all their "astromatter". But despite the seemingly infinite stretches of intergalactic space in between, there should still be some annihilation and we should consequently be able to observe the gamma rays that are emitted. [\[source\]](https://www.sciencedirect.com/science/article/pii/S0370223103000271) But we can't, making this theory [speculating that] not the most probable. But who knows there could be an anti me writing this and an anti you reading this. So our main reasoning seems quite straightforward. There simply must be more matter than antimatter in the universe. But it's never that easy in science, you have to prove it. As Cillian Murphy said in the mildly overrated Oppenheimer "theory can only take you so far." But at this moment in time, that is what we have just theories, but our friends at CERN and Fermilab are working on it [more on page 4.1]. Most theories that could explain the asymmetry would need an alteration or addition to the standard model of matter to satisfy them. [\[source\]](https://www.sciencedirect.com/science/article/pii/S0370223103000271) Revealing that from what we currently know, the SM just does not give us enough to explain some very important things. All leading theories posit that something caused an imbalance in the matter-antimatter ratio so that there ended up being a little bit more matter than antimatter. According to Fermilab's Dan Lincoln the author of Einstein's unfinished Diaries, it is thought that for every 3 billion antimatter particles there was 3 billion and one matter particles. That one is what was left over and there we are.

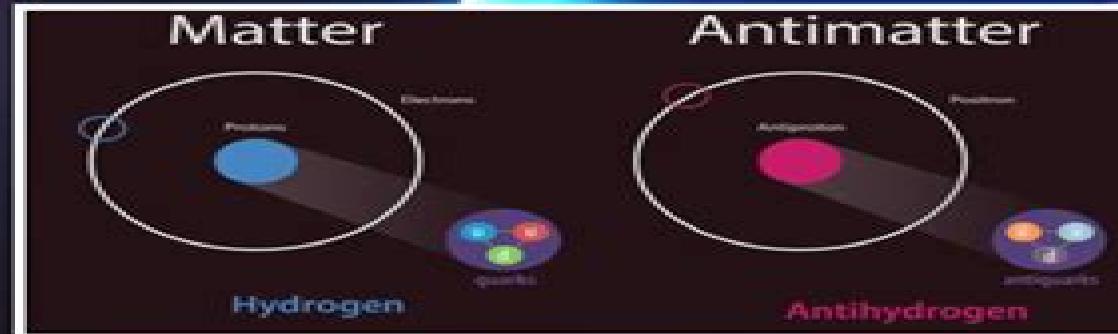


Figure 1 : Matter and Antimatter comparison - Big Think ( 2020 )

## Not to be confused with Dark Matter

It is easy to become confused between Dark matter and Antimatter but they are two very distinct things, dark matter is a form of matter that does not emit, absorb or reflect light and it is only known to exist because its gravitational effects can be observed on galaxies. Antimatter is the same as normal matter except it has opposite charge.

# 9the Study Of Matter

**Padhraic Smyth**

## 9the Study Of Matter:

YOUNMARES 9 - *The Oceans: Our Research, Our Future* Simon Jungblut, Viola Liebich, Maya Bode-Dalby, 2019-10-14 This open access book summarizes peer reviewed articles and the abstracts of oral and poster presentations given during the YOUNMARES 9 conference which took place in Oldenburg Germany in September 2018 The aims of this book are to summarize state of the art knowledge in marine sciences and to inspire scientists of all career stages in the development of further research These conferences are organized by and for young marine researchers Qualified early career researchers who moderated topical sessions during the conference contributed literature reviews on specific topics within their research field

**The Science of Matter** Maurice P. Crosland, 1992 The Science of Matter strikes a balance between the two basic sciences of matter physics and chemistry by drawing on popularized secondary accounts and actual words and symbols used by scientists to give the reader a sense of the contributions which modern science has made to the study of matter With selections spanning the classical age to the twentieth century this book offers a clear introduction to the evolution of modern science

Theorizing Visual Studies James Elkins, 2013 This forward thinking collection brings together over sixty essays that invoke images to summon interpret and argue with visual studies and its neighboring fields such as art history media studies visual anthropology critical theory cultural studies and aesthetics The product of a multi year collaboration between graduate students from around the world spearheaded by James Elkins this one of a kind anthology is a truly international interdisciplinary point of entry into cutting edge visual studies research The book is fluid in relation to disciplines it is frequently inventive in relation to guiding theories it is unpredictable in its allegiance and interest in the past of the discipline reflecting the ongoing growth of visual studies

*Computer Simulation Studies in Condensed-Matter Physics XIV* D.P. Landau, S.P. Lewis, 2002-05-28 Over the last 30 years Professor David P Landau's trailblazing research achievements and influential leadership have helped establish computer simulation as a powerful and incisive mode of scientific investigation now on a par in the physical sciences with experimental and theoretical research This year we were very pleased to organize a special one day symposium honoring the 60th birthday of our distinguished colleague and friend This event was held in conjunction with and immediately following the annual computer simulations workshop that Professor Landau founded 14 years ago Many of the papers presented at this honorary symposium are integrated into this proceedings volume and the accompanying photograph of participants serves to commemorate this very special event This volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics We hope that each reader will benefit from specialized results as well as profit from exposure to new algorithms methods of analysis and conceptual developments

The School News and Practical Educator, 1898 **Proceedings of the 9th General Conference of the Condensed Matter Division of the European Physical Society** European Physical Society.

Condensed Matter Division. General Conference, 1989

Nature Study for Grammar Grades Wilbur Samuel Jackman, 1899

*Physical Science Junior High School Science Series 1986* ,1986-06    *The Boston Journal of Chemistry and Popular Science Review* ,1881    *Computer Simulation Studies in Condensed-Matter Physics XVI* David P. Landau,Steven P. Lewis,2004-09 This status report features the most recent developments in the field spanning a wide range of topical areas in the computer simulation of condensed matter materials physics Highlights of this volume include various aspects of non equilibrium statistical mechanics studies of properties of real materials using both classical model simulations and electronic structure calculations and the use of computer simulation in teaching    **Hansard's Parliamentary Debates** Great Britain. Parliament,1888    [Boston Journal of Chemistry and Popular Science Review](#) ,1883    *Recent Developments in Condensed Matter Physics and Nuclear Science: Nuclear science* ,1997    [Missouri School Journal](#) ,1897    [Matter, Life, Mind, and God : Five Lectures on Contemporary Tendencies of Thought](#) Reinholt Friedrich Alfred Hoernlé,1926    **Catalogue. [With Index to the subject-matter of the works contained in the Catalogue]** Royal statistical society libr,1884    *Science, Matter, and Immortality* Ronald Campbell Macfie,1909    **The Latest and Best of TESS** ,1991    *A Study of the Removal of Radioactive Particulate Matter from Water by Coagulation* Nathan C. Burbank,1955    **Condensed matter studies by nuclear methods** Jan Stanek,1990

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **9the Study Of Matter** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect on the hearts and minds of those that partake in its reading experience.

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