

Dark Matter

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Dark matter is a form of matter thought to account for approximately 85% of the matter in the universe and about a quarter of its total mass – energy density or about 2.241×10^{-27} kg/m³. Its presence is implied in a variety of astrophysical observations, including gravitational effects that cannot be explained by accepted theories of gravity unless more matter is present than can be seen.

Dark matter - Wikipedia

Created by Joseph Mallozzi, Paul Mullie. With Melissa O'Neil, Anthony Lemke, Alex Mallari Jr., Jodelle Ferland. In the dystopian 27th century, six people wake up on a deserted spaceship with no memory of who they are or what they're doing there. They reluctantly team up and set off to find answers with the help of a female android.

Dark Matter (TV Series 2015 – 2017) - IMDb

Dark matter could be white dwarfs, the remnants of cores of dead small- to medium-size stars. Or dark matter could be neutron stars or black holes, the remnants of large stars after they explode. The Fermi Gamma-Ray Space Telescope can detect high-energy gamma rays that may be emitted when dark matter particles collide.

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What Is Dark Matter? | NASA

The dark matter that comprises the other 26.1 percent of the universe ' s matter is in an unfamiliar, nonbaryonic form. The rate at which galaxies and large structures composed of galaxies coalesced from density fluctuations in the early universe indicates that the nonbaryonic dark matter is relatively ...

dark matter | Definition & Facts | Britannica

Dark matter is a mysterious non-luminous substance making up the vast majority of matter in the universe. Though experts have observed the gravitational effects of dark matter for decades ...

What is dark matter? | Live Science

Dark matter may be made of baryonic or non-baryonic matter. To hold the elements of the universe together, dark matter must make up approximately 80% percent of the universe. The missing matter ...

What is Dark Matter? | Space

The dark matter-to-normal matter ratio of over 600-to-1 is the greatest ratio ever seen in the dark matter-favoring direction. Marla Geha and Keck Observatories 4.)

5 Things We Know About Dark Matter (And 5 We Don't)

Unlike for dark matter, scientists have no plausible explanation for dark energy. According to one idea, dark energy is a fifth and previously unknown type of fundamental force called quintessence ...

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Dark Matter and Dark Energy | National Geographic

What is dark energy? More is unknown than is known — we know how much there is, and we know some of its properties; other than that, dark energy is a mystery — but an important one. Roughly 70% of the Universe is made of dark energy. Dark matter makes up about 25%. The rest - everything on Earth, everything ever observed with all of our instruments, all normal matter adds up to less than 5 ...

Dark Energy, Dark Matter | Science Mission Directorate

Dark Matter is a Canadian science fiction series created by Joseph Mallozzi and Paul Mullie, based on their comic book of the same name and developed by Prodigy Pictures in association with Space channel. An order for 13 episodes was placed for the first season of the series, which premiered on June 12, 2015 on both Space and Syfy.. On September 5, 2015, the series was renewed for a second season.

Dark Matter (TV series) - Wikipedia

Dark Matter is a brilliantly plotted tale that is at once sweeping and intimate, mind-bendingly strange and profoundly human—a relentlessly surprising science-fiction thriller about choices, paths not taken, and how far we ' ll go to claim the lives we dream of.

Dark Matter: A Novel: Crouch, Blake: 9781101904244: Amazon ...

So if dark matter passes right through normal matter, trying to find dark matter is like trying to catch a ghost baseball with a normal glove. Plus, while dark matter is bountiful in the universe

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Dark matter, unexplained - Vox

Astronomers discovered dark matter through its gravitational interactions with ordinary matter, suggesting that this is its main way of making its presence known in the universe.

The 11 Biggest Unanswered Questions About Dark Matter ...

Dark Matter, to be blunt, is miles and miles away from the line that marks my ‘ ‘ comfort zone. ’ ’ I never, or very, very seldom, read books such as this one. But the truth is, I never read a book like Dark Matter before. It ’ s a love story, it ’ s a thriller, it ’ s a science fiction book. It ’ s thought-provoking, gripping, action-filled.

Dark Matter by Blake Crouch - Goodreads

The lightest that dark matter could possibly be is about one-thousandth of a trillionth of a trillionth of the electron ’ s mass—which would result in a particle that ’ s like an extremely low ...

The Search for Dark Matter Is Dramatically Expanding | WIRED

View All Dark Matter News . About Tomatometer. A series gets an Average Tomatometer when at least 50 percent of its seasons have a score. The Average Tomatometer is the sum of all season scores ...

Dark Matter - Rotten Tomatoes

Dark matter, the invisible matter that provides structure for the universe, reveals itself through gravitational influence in galaxies. New observations made using the Hubble Space Telescope have ...

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Mysterious dark matter: New aspect revealed by Hubble ...

Dark Matter (TV Series 2015–2017) cast and crew credits, including actors, actresses, directors, writers and more.

A mindbending, relentlessly surprising thriller from the author of the bestselling Wayward Pines trilogy. “Are you happy with your life?” Those are the last words Jason Dessen hears before the masked abductor knocks him unconscious. Before he awakens to find himself strapped to a gurney, surrounded by strangers in hazmat suits. Before a man Jason’s never met smiles down at him and says, “Welcome back, my friend.” In this world he’s woken up to, Jason’s life is not the one he knows. His wife is not his wife. His son was never born. And Jason is not an ordinary college physics professor, but a celebrated genius who has achieved something remarkable. Something impossible. Is it this world or the other that’s the dream? And even if the home he remembers is real, how can Jason possibly make it back to the family he loves? The answers lie in a journey more wondrous and horrifying than anything he could’ve imagined—one that will force him to confront the darkest parts of himself even as he battles a terrifying, seemingly unbeatable foe. Dark Matter is a brilliantly plotted tale that is at once sweeping and intimate, mind-bendingly strange and profoundly human—a relentlessly surprising science-fiction thriller about choices, paths not taken, and how far we’ll go to claim the lives we dream of.

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This volume introduces black science fiction, fantasy, and speculative fiction writers to the generations of readers who have not had the chance to explore the scope and diversity among African-American writers.

Dark Matter is the first and only series to bring together the works of black SF and fantasy writers. The first volume was featured in the "New York Times," which named it a Notable Book of the Year.

Grossly ambitious and rooted in scientific scholarship, *The Other Dark Matter* shows how human excrement can be a life-saving, money-making resource—if we make better use of it. The average person produces about four hundred pounds of excrement a year. More than seven billion people live on this planet. Holy crap! Because of the diseases it spreads, we have learned to distance ourselves from our waste, but the long line of engineering marvels we 've created to do so—from Roman sewage systems and medieval latrines to the immense, computerized treatment plants we use today—has also done considerable damage to the earth 's ecology. Now scientists tell us: we 've been wasting our waste. When recycled correctly, this resource, cheap and widely available, can be converted into a sustainable energy source, act as an organic fertilizer, provide effective medicinal therapy for antibiotic-resistant bacterial infection, and much more. In clear and engaging prose that draws on her extensive research and interviews, Lina Zeldovich documents the massive redistribution of nutrients and sanitation inequities across the globe. She profiles the pioneers of poop upcycling, from startups in African

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villages to innovators in American cities that convert sewage into fertilizer, biogas, crude oil, and even life-saving medicine. She breaks taboos surrounding sewage disposal and shows how hygienic waste repurposing can help battle climate change, reduce acid rain, and eliminate toxic algal blooms. Ultimately, she implores us to use our innate organic power for the greater good. Don ' t just sit there and let it go to waste.

Describes the dark matter problem in particle physics, astrophysics and cosmology for graduate students and researchers.

All the matter and light we can see in the universe makes up a trivial 5 per cent of everything. The rest is hidden. This could be the biggest puzzle that science has ever faced. Since the 1970s, astronomers have been aware that galaxies have far too little matter in them to account for the way they spin around: they should fly apart, but something concealed holds them together. That ' something' is dark matter – invisible material in five times the quantity of the familiar stuff of stars and planets. By the 1990s we also knew that the expansion of the universe was accelerating. Something, named dark energy, is pushing it to expand faster and faster. Across the universe, this requires enough energy that the equivalent mass would be nearly fourteen times greater than all the visible material in existence. Brian Clegg explains this major conundrum in modern science and looks at how scientists are beginning to find solutions to it.

In this brilliant exploration of our cosmic environment, the renowned particle physicist and New York Times

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bestselling author of *Warped Passages* and *Knocking on Heaven's Door* uses her research into dark matter to illuminate the startling connections between the furthest reaches of space and life here on Earth. Sixty-six million years ago, an object the size of a city descended from space to crash into Earth, creating a devastating cataclysm that killed off the dinosaurs, along with three-quarters of the other species on the planet. What was its origin? In *Dark Matter and the Dinosaurs*, Lisa Randall proposes it was a comet that was dislodged from its orbit as the Solar System passed through a disk of dark matter embedded in the Milky Way. In a sense, it might have been dark matter that killed the dinosaurs. Working through the background and consequences of this proposal, Randall shares with us the latest findings—established and speculative—regarding the nature and role of dark matter and the origin of the Universe, our galaxy, our Solar System, and life, along with the process by which scientists explore new concepts. In *Dark Matter and the Dinosaurs*, Randall tells a breathtaking story that weaves together the cosmos' history and our own, illuminating the deep relationships that are critical to our world and the astonishing beauty inherent in the most familiar things.

This book shows how modern cosmology has led to the idea of dark matter in the universe, and presents a new theory to explain it.

Written for the educated non-scientist and scientist alike, it spans a variety of scientific disciplines, from observational astronomy to particle physics. Concepts that the reader will encounter along the way are at the

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cutting edge of scientific research. However the themes are explained in such a way that no prior understanding of science beyond a high school education is necessary.

Dark Matter: An Introduction tackles the rather recent but fast-growing subject of astroparticle physics, encompassing three main areas of fundamental physics: cosmology, particle physics, and astrophysics. Accordingly, the book discusses symmetries, conservation laws, relativity, and cosmological parameters and measurements, as well as the astrophysical behaviors of galaxies and galaxy clusters that indicate the presence of dark matter and the possible nature of dark matter distribution. This succinct yet comprehensive volume: Addresses all aspects essential to the study of dark matter Explores particle candidates for cold dark matter beyond the theory of the standard model, providing examples of basic extensions and introducing theories such as supersymmetry and extra dimensions Explains—in simple text and mathematical formulations—calculation of the freeze-out temperature of a dark matter species and its relic density Provides theoretical background for dark matter scattering off a target, event rate calculation, and dark matter annihilation essential to study direct and indirect detection of dark matter Complete with a detailed review of the latest dark matter experiments and techniques, Dark Matter: An Introduction is an ideal text for beginning researchers in the field as well as for general readers with an inquisitive mind, as the important topic of astroparticle physics is treated both pedagogically and with deeper insight.

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