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Dark Matter

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  $2.241 \times 10^{-27} \text{ kg/m}^3$ . 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

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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

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collide.

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 ...

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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

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unknown type of fundamental force called quintessence ...

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

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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:

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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 ...

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

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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 ...

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## 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 ...

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.

"Extra Libris: Essays, Reader's Guides, and More"--Page [345].

January 1937. Clouds of war are

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gathering over a fogbound London. Twenty-eight year old Jack is poor, lonely and desperate to change his life. So when he's offered the chance to be the wireless operator on an Arctic expedition, he jumps at it. Spirits are high as the ship leaves Norway: five men and eight huskies, crossing the Barents Sea by the light of the midnight sun. At last they reach the remote, uninhabited bay where they will camp for the next year. Gruhuken. But the Arctic summer is brief. As night returns to claim the land, Jack feels a creeping unease. One by one, his companions are forced to leave. He faces a stark choice. Stay or go. Soon he will see the last of the sun, as the polar night engulfs the camp in months of darkness. Soon he will reach the point of no return - when the sea will

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freeze, making escape impossible. And Gruhuken is not uninhabited. Jack is not alone. Something walks there in the dark. This Special Edition Ebook will feature exclusive material: AUTHOR EXTRAS: Dark Matter ¿ An exclusive interview with Michelle Paver and an extended author biography with integrated photos of the landscape of Spitsbergen. COVER DESIGN: Dark Matter ¿ the jacket designer¿s take and cover design progression (5 x visuals). DARK MATTER - A SHORT FILM: Dark Matter ¿ Turning the novel into a short promotional film and Dark Matter - The Film Director's Cut, the rejected film scripts, the final film script and behind the scenes at filming (3 x visuals).

Dark Matter is the first and only series

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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.

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

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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

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world and the astonishing beauty inherent in the most familiar things.

In *Dark Matters* Simone Browne locates the conditions of blackness as a key site through which surveillance is practiced, narrated, and resisted. She shows how contemporary surveillance technologies and practices are informed by the long history of racial formation and by the methods of policing black life under slavery, such as branding, runaway slave notices, and lantern laws. Placing surveillance studies into conversation with the archive of transatlantic slavery and its afterlife, Browne draws from black feminist theory, sociology, and cultural studies to analyze texts as diverse as the methods of surveilling blackness she discusses: from the design of the

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eighteenth-century slave ship *Brooks*, Jeremy Bentham's Panopticon, and *The Book of Negroes*, to contemporary art, literature, biometrics, and post-9/11 airport security practices. Surveillance, Browne asserts, is both a discursive and material practice that reifies boundaries, borders, and bodies around racial lines, so much so that the surveillance of blackness has long been, and continues to be, a social and political norm.

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

The study of dark matter, in both astrophysics and particle physics, has emerged as one of the most active

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and exciting topics of research in recent years. This book reviews the history behind the discovery of missing mass (or unseen mass) in the Universe, and ties this into the proposed extensions to the Standard Model of Particle Physics (such as Supersymmetry), which were being proposed within the same time frame. This book is written as an introduction to these problems at the forefront of astrophysics and particle physics, with the goal of conveying the physics of dark matter to beginning undergraduate majors in scientific fields. The book goes on to describe existing and upcoming experiments and techniques, which will be used to detect dark matter either directly or indirectly.

Based on a Simons Symposium held

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in 2018, the proceedings in this volume focus on the theoretical, numerical, and observational quest for dark matter in the universe. Present ground-based and satellite searches have so far severely constrained the long-proposed theoretical models for dark matter. Nevertheless, there is continuously growing astrophysical and cosmological evidence for its existence. To address present and future developments in the field, novel ideas, theories, and approaches are called for. The symposium gathered together a new generation of experts pursuing innovative, more complex theories of dark matter than previously considered. This is being done hand in hand with experts in numerical astrophysical simulations and observational techniques—all

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paramount for deciphering the nature of dark matter. The proceedings volume provides coverage of the most advanced stage of understanding dark matter in various new frameworks. The collection will be useful for graduate students, postdocs, and investigators interested in cutting-edge research on one of the biggest mysteries of our universe.

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

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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.

Years after a 1960s religious guru's clandestine activities with his most fervent acolytes results in a grisly murder, a man struggles to make sense of what happened to his wife

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and friends by writing a book for which he asks former followers to relive their experiences. Reprint. A best-selling book.

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