

# Entangled

Entangled

*Look up entangled in Wiktionary, the free dictionary. Entangled may refer to: Entangled state, in physics, a state arising from quantum entanglement Entangled*

Entangled may refer to:

Entangled state, in physics, a state arising from quantum entanglement

Entangled (film), a 1993 film starring Judd Nelson and Pierce Brosnan

Entangled (Partington), a 2004 abstract sculpture created by Brose Partington

"Entangled" (song), a song by Genesis from the 1976 album A Trick of the Tail

"Entangled" (Red Dwarf), the fourth episode of series 10 of the science fiction sitcom Red Dwarf

Entangled Publishing, a book publisher

Quantum entanglement

*polarization performed on entangled particles can, in some cases, be found to be perfectly correlated. For example, if a pair of entangled particles is generated*

Quantum entanglement is the phenomenon where the quantum state of each particle in a group cannot be described independently of the state of the others, even when the particles are separated by a large distance. The topic of quantum entanglement is at the heart of the disparity between classical physics and quantum physics: entanglement is a primary feature of quantum mechanics not present in classical mechanics.

Measurements of physical properties such as position, momentum, spin, and polarization performed on entangled particles can, in some cases, be found to be perfectly correlated. For example, if a pair of entangled particles is generated such that their total spin is known to be zero, and one particle is found to have clockwise spin on a first axis, then the spin of the other particle, measured on the same axis, is found to be anticlockwise. However, this behavior gives rise to seemingly paradoxical effects: any measurement of a particle's properties results in an apparent and irreversible wave function collapse of that particle and changes the original quantum state. With entangled particles, such measurements affect the entangled system as a whole.

Such phenomena were the subject of a 1935 paper by Albert Einstein, Boris Podolsky, and Nathan Rosen, and several papers by Erwin Schrödinger shortly thereafter, describing what came to be known as the EPR paradox. Einstein and others considered such behavior impossible, as it violated the local realism view of causality and argued that the accepted formulation of quantum mechanics must therefore be incomplete.

Later, however, the counterintuitive predictions of quantum mechanics were verified in tests where polarization or spin of entangled particles were measured at separate locations, statistically violating Bell's inequality. This established that the correlations produced from quantum entanglement cannot be explained in terms of local hidden variables, i.e., properties contained within the individual particles themselves.

However, despite the fact that entanglement can produce statistical correlations between events in widely separated places, it cannot be used for faster-than-light communication.

Quantum entanglement has been demonstrated experimentally with photons, electrons, top quarks, molecules and even small diamonds. The use of quantum entanglement in communication and computation is an active area of research and development.

## Entangled Life

*of Entangled Life* by Merlin Sheldrake. Archived from the original on 1 September 2020. Retrieved 31 August 2020. Bone, Eugenia (22 May 2020). *Entangled Life*.

*Entangled Life: How Fungi Make Our Worlds, Change Our Minds and Shape Our Futures* is a 2020 non-fiction book on mycology by British biologist Merlin Sheldrake. His first book, it was published by Random House on 12 May 2020. Among the several accolades the book and author have received was the 2021 Royal Society Prize for Science Books.

## Entangled Publishing

*of 2025. Entangled Publishing was founded in 2011 by Liz Pelletier, who previously worked as a software engineer. In November 2022, Entangled Publishing*

Entangled Publishing is a book publisher specializing in romantasy. It is best known for publishing Rebecca Yarros' *Empyrean* series and was listed at number 50 on Fast Company's list of the World's 50 Most Innovative Companies of 2025.

## Absolutely maximally entangled state

*multipartite generalization of the bipartite maximally entangled state. The bipartite maximally entangled state*  $|\psi\rangle_{AB}$

The absolutely maximally entangled (AME) state is a concept in quantum information science, which has many applications in quantum error-correcting code, discrete AdS/CFT correspondence, AdS/CMT correspondence, and more. It is the multipartite generalization of the bipartite maximally entangled state.

## Fourth Wing

*in the United States on May 2, 2023, by Red Tower Book, an imprint of Entangled Publishing. Its viral success within TikTok's reader community, BookTok*

*Fourth Wing* is a new adult fantasy romance novel written by the American author Rebecca Yarros. It is the first book in the *Empyrean* series, following the journey of Violet Sorrengail, who is forced by her mother, General Sorrengail, to join the Basgiath War College and become a dragon rider in the kingdom of Navarre. Even though she has been trained her entire life to enter the Scribe Quadrant, Violet must endure deadly quests and competitions that push her to her limits while trying to avoid being killed by one of the most powerful riders in the quadrant, Xaden Riorson.

The book was published in the United States on May 2, 2023, by Red Tower Book, an imprint of Entangled Publishing. Its viral success within TikTok's reader community, BookTok, significantly contributed to its No. 1 ranking on The New York Times bestseller list. It won The International Book of the Year 2024 at the annual TikTok Book Awards. The book sold over 2.7 million copies in its first week and has been translated into approximately 30 languages.

Yarros has mentioned in interviews that the idea for *Fourth Wing* emerged when her publisher announced that they were going to start a romantic fantasy line, prompting her to submit five proposals. After several reviews, her publisher selected the third idea, which explored the *Empyrean* world. The inspiration for the story stems from her fascination with dragons, her military experience with her husband, and her personal

struggles. Violet's physical fragility, as described in the book, was influenced by Yarros's own experience living with Ehlers-Danlos syndrome, a genetic disorder affecting both her and her children. Yarros has expressed a desire to represent people with chronic illnesses, showcasing that they can also be heroic.

## A Trick of the Tail

*easy to write, and was intended to show how Genesis would move forward. "Entangled" originated from a piece by Hackett that Banks particularly liked, and*

A Trick of the Tail is the seventh studio album by the English progressive rock band Genesis. It was released on 13 February 1976 on Charisma Records and was the first album to feature drummer Phil Collins as lead vocalist following the departure of Peter Gabriel. It was a critical and commercial success in the UK and US, reaching No. 3 and No. 31 respectively.

Following Gabriel's decision to leave the band, the remaining members wanted to carry on to show they could still write and record successful material, as keyboardist Tony Banks and bassist/rhythm guitarist Mike Rutherford, not Gabriel, were the principal writers of the music. The group wrote and rehearsed new songs during mid-1975, and listened to numerous audition tapes for a replacement frontman. They entered Trident Studios in October with producer David Hentschel to record the album without a definitive idea of who was going to perform lead vocals. After the search for a singer proved unfruitful, Collins was persuaded to sing "Squonk", and the performance was so strong, he sang lead on the rest of the album.

Upon release, critics were impressed by the improved sound quality and the group's ability to survive the loss of Gabriel without sacrificing the quality of the music. The group went out on tour with Collins as frontman and Bill Bruford as tour drummer, and the resulting performances in the US raised Genesis' profile there. The album has been reissued on CD several times, including a deluxe package with bonus videos in 2007.

## Quantum teleportation

*information is teleported, with one of the entangled particles, causing a change of the overall entangled quantum state. Of this changed state, the particles*

Quantum teleportation is a technique for transferring quantum information from a sender at one location to a receiver some distance away. While teleportation is commonly portrayed in science fiction as a means to transfer physical objects from one location to the next, quantum teleportation only transfers quantum information. The sender does not have to know the particular quantum state being transferred. Moreover, the location of the recipient can be unknown, but to complete the quantum teleportation, classical information needs to be sent from sender to receiver. Because classical information needs to be sent, quantum teleportation cannot occur faster than the speed of light.

One of the first scientific articles to investigate quantum teleportation is "Teleporting an Unknown Quantum State via Dual Classical and Einstein-Podolsky-Rosen Channels" published by C. H. Bennett, G. Brassard, C. Crépeau, R. Jozsa, A. Peres, and W. K. Wootters in 1993, in which they proposed using dual communication methods to send/receive quantum information. It was experimentally realized in 1997 by two research groups, led by Sandu Popescu and Anton Zeilinger, respectively.

Experimental determinations of quantum teleportation have been made in information content – including photons, atoms, electrons, and superconducting circuits – as well as distance, with 1,400 km (870 mi) being the longest distance of successful teleportation by Jian-Wei Pan's team using the Micius satellite for space-based quantum teleportation.

## Entangled (film)

*1994 Annual. CineBooks, 1994. ISBN 0933997337. Film Review, Issues 4-5. Orpheus Pub., 1993. Entangled at IMDb Entangled at Rotten Tomatoes v t e v t e*

Entangled (French: Les veufs) is a 1993 thriller film directed by Max Fischer and starring Judd Nelson and Pierce Brosnan.

Rebecca Yarros

*Measures. Entangled. 2014. Eyes Turned Skyward. Entangled. 2014. ISBN 9781633751491. Beyond What is Given. Entangled. 2015. Hallowed Ground. Entangled. 2016*

Rebecca Yarros (born April 14, 1981) is an American author. She is best known for the Empyrean fantasy book series, which will be adapted into a television series with Amazon; Yarros will serve as a non-writing executive producer. Yarros graduated from Troy University, where she studied European history and English.

<https://www.24vul-slots.org.cdn.cloudflare.net/^77716716/denforcek/wdistinguishb/usupporto/biochemistry+quickstudy+academic.pdf>  
[https://www.24vul-slots.org.cdn.cloudflare.net/\\$48414698/gperformh/patractro/vunderlinek/maruti+800dx+service+manual.pdf](https://www.24vul-slots.org.cdn.cloudflare.net/$48414698/gperformh/patractro/vunderlinek/maruti+800dx+service+manual.pdf)  
<https://www.24vul-slots.org.cdn.cloudflare.net/+36735442/hwithdrawg/uattractv/vconfused/ford+transit+connect+pats+wiring+diagram>  
<https://www.24vul-slots.org.cdn.cloudflare.net/~43196304/zevaluatey/ccommissionx/bconfusem/canon+k10355+manual.pdf>  
[https://www.24vul-slots.org.cdn.cloudflare.net/\\_30862299/bconfronth/ainterpretk/vcontemplated/dailyom+courses.pdf](https://www.24vul-slots.org.cdn.cloudflare.net/_30862299/bconfronth/ainterpretk/vcontemplated/dailyom+courses.pdf)  
<https://www.24vul-slots.org.cdn.cloudflare.net/~12714208/orebuildb/adistinguishm/dconfuseq/2013+pssa+administrator+manuals.pdf>  
<https://www.24vul-slots.org.cdn.cloudflare.net/+39925525/uevaluateo/btightena/hcontemplatew/searchable+2000+factory+sea+doo+sea>  
<https://www.24vul-slots.org.cdn.cloudflare.net/-97990026/levaluatep/ctighteno/econtemplatef/deutsche+grammatik+buch.pdf>  
[https://www.24vul-slots.org.cdn.cloudflare.net/\\$25155422/uexhaustj/catractp/rsupportz/make+ahead+meals+box+set+over+100+mug+](https://www.24vul-slots.org.cdn.cloudflare.net/$25155422/uexhaustj/catractp/rsupportz/make+ahead+meals+box+set+over+100+mug+)  
<https://www.24vul-slots.org.cdn.cloudflare.net/~31107733/xexhaustf/ncommissionb/psupporte/fluoroscopy+test+study+guide.pdf>