

CONFORMAL FIELD THEORY

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Who invented conformal field theory? The existence of a much stronger symmetry for the scaling limit of two-dimensional critical systems was suggested by Alexander Belavin, Alexander Markovich Polyakov and Alexander Zamolodchikov in 1984, which eventually led to the development of conformal field theory, a special case of quantum field theory, which is ...

What is a conformal field theory in a nutshell? Conformal field theories (CFTs) are quantum field theories (QFTs) that are invariant under the conformal group, which consists of changes of coordinates that preserve angles. These include translations and Lorentz transformations, that define the Poincare group of standard relativistic QFT, as well as rescalings.

What is CFT in physics? A conformal field theory (CFT) is a field theory which is invariant under these transformations. This means that the physics of the theory looks the same at all length scales. Conformal field theories care about angles, but not about distances.

What is the classical conformal field theory? Classical conformal field theory is defined as a conformal field theory where the conformal weights of all primary fields vanish. In this case, conformal field theory is nothing but group theory.

Why is conformal field theory important? Conformal field theory has important applications to condensed matter physics, statistical mechanics, quantum statistical mechanics, and string theory. Statistical and condensed matter systems are indeed often conformally invariant at their thermodynamic or quantum critical points.

Who is the father of field theory? It was developed by Kurt Lewin, a Gestalt psychologist, in the 1940s.

What is conformal field theory in two dimensions? A two-dimensional conformal field theory is a quantum field theory on a Euclidean two-dimensional space, that is invariant under local conformal transformations. In contrast to other types of conformal field theories, two-dimensional conformal field theories have infinite-dimensional symmetry algebras.

What is a primary field in conformal field theory? In theoretical physics, a primary field, also called a primary operator, or simply a primary, is a local operator in a conformal field theory which is annihilated by the part of the conformal algebra consisting of the lowering generators.

What is Chern Simons conformal field theory? Chern–Simons theory is an exercise in the simplicity, beauty, and weirdness of topology. It is an archetypical example of a topological field theory, a quantum field theory where the physical observables are topological invariants of the spacetime in which the theory lives.

What is CFT in simple words? Crystal field theory (CFT) describes the breaking of orbital degeneracy in transition metal complexes due to the presence of ligands.

What can't be explained by CFT? Crystal field theory says nothing about the orbitals of ligands. It only focuses on the metal orbital. It does not account for why some ligands split the d orbitals greatly and some ligands split the d orbitals shortly. It can not explain why H₂O is a strong field ligand and why OH⁻ is a weak field ligand.

What is the CFT in math? Cubic footage is a mathematical way to describe how much space an object fills. You can refer to this measurement as volume or capacity. You can write cubic feet as feet³ or x cubic feet, regarding the three dimensions that the object occupies: length, width and height.

What is Toda conformal field theory? Toda Conformal Field Theories (CFTs hereafter) are generalizations of Liouville CFT where the underlying field is no longer scalar but takes values in a finite-dimensional vector space. The algebra of symmetry of such models is given by W-algebras, which contain the Virasoro

algebra as a subalgebra.

What is logarithmic conformal field theory? In theoretical physics, a logarithmic conformal field theory is a conformal field theory in which the correlators of the basic fields are allowed to be logarithmic at short distance, instead of being powers of the fields' distance. Equivalently, the dilation operator is not diagonalizable.

What is the stress energy tensor in conformal field theory? The behaviour of the stress tensor under conformal transformations of both flat and curved spaces is investigated for free theories in a classical background metric. In flat space ? d it is derived by the operator product expansion of two stress tensors.

Who developed conformal gravity theory? Jayant Narlikar along with Sir Fred Hoyle developed the conformal gravity theory, which is commonly known as the Hoyle-Narlikar theory. It synthesises Albert Einstein's Theory of Relativity and Mach's Principle.

Who is the father of QFT? The inception of QFT is usually dated 1927 with Dirac's famous paper on "The quantum theory of the emission and absorption of radiation" (Dirac 1927). Here Dirac coined the name quantum electrodynamics (QED) which is the part of QFT that has been developed first.

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Who discovered field theory? In physics, forces can be described by fields that mediate interactions between separate objects. In the mid-19th century James Clerk Maxwell formulated the first field theory in his theory of electromagnetism.

The Final Leap: Suicide on the Golden Gate Bridge

By Gregory Bateson

The Golden Gate Bridge, an iconic landmark of San Francisco, is also a tragic symbol of suicide. Since its completion in 1937, over 2,000 people have taken their lives by jumping from the bridge. Bateson's book, "The Final Leap," explores the

complex factors that contribute to these suicides.

Question 1: What is the highest rate of suicide for any bridge in the world?

Answer: The Golden Gate Bridge has the highest rate of suicide for any bridge in the world, with an average of one death every two weeks.

Question 2: What are some of the factors that contribute to suicide on the bridge?

Answer: Factors contributing to suicide on the Golden Gate Bridge include mental illness, substance abuse, relationship problems, financial stress, and a history of trauma.

Question 3: What are the warning signs of suicide?

Answer: Warning signs of suicide include talking about wanting to die or self-harm, withdrawing from friends and family, giving away possessions, and making arrangements for their own death.

Question 4: What can be done to prevent suicide on the Golden Gate Bridge?

Answer: Proposed solutions to prevent suicide on the Golden Gate Bridge include installing suicide barriers, providing mental health support services, and increasing public awareness about the issue.

Question 5: What is the impact of suicide on the survivors?

Answer: Suicide on the Golden Gate Bridge has a devastating impact on survivors, including family, friends, and loved ones. Survivors often experience grief, guilt, and a sense of loss.

Understanding Addiction and Mental Health with Dr. Scott Courtney

Question 1: What are the key factors that can lead to addiction?

Dr. Courtney: Addiction is a complex condition that can be influenced by a variety of factors, including genetics, environmental stressors, and psychological factors. Research has shown that individuals with a family history of addiction, childhood trauma, or mental health conditions may be at higher risk for developing addiction.

Question 2: How does addiction affect the brain and body?

Dr. Courtney: Addiction alters the neurochemical balance of the brain, leading to compulsive drug-seeking and use. It can also cause physical damage to organs such as the heart, liver, and kidneys. Over time, addiction can impair cognitive function, mood regulation, and social relationships.

Question 3: What are some effective treatments for addiction?

Dr. Courtney: Evidence-based treatments for addiction typically involve a combination of therapies and interventions. These may include cognitive behavioral therapy (CBT), motivational interviewing, medication-assisted treatment, and support groups. The best course of treatment will vary depending on the individual's needs and circumstances.

Question 4: How can I help someone who is struggling with addiction?

Dr. Courtney: It's crucial to approach someone struggling with addiction with compassion and empathy. Encourage them to seek professional help and provide support throughout the recovery process. Offer to accompany them to appointments or therapy sessions, and let them know that you care about their well-being.

Question 5: Is it possible to recover from addiction?

Dr. Courtney: Recovery from addiction is possible with the right treatment and support. It requires hard work, dedication, and a commitment to change. While relapse may occur during the recovery process, it's important to remember that progress is not linear. With perseverance and the right resources, individuals can overcome addiction and live fulfilling lives.

What is the best John Lennon biography? John Lennon: The Life Norman, whose 1981 classic Shout! is considered the definitive biography of The Beatles, returns with John Lennon: The Life. It's an intimate look at the troubled genius who, with other Beatles members, changed the shape and sound of popular music.

Is The Lives of John Lennon accurate? It is best known for its criticism and generally negative representation of the personal lives of Lennon and his wife, Yoko

Ono. The book contains numerous factual inaccuracies and was largely dismissed by those who knew Lennon personally.

How old would John Lennon be if he lived? How old was Lennon when he was killed? John Lennon, born on October 9, 1940, died at the age of 40. Had he survived, Lennon would be 83 years old today. Fellow Beatles Paul McCartney and Ringo Starr are currently 81 and 83, respectively.

What was John Lennon working on before he died? The Dakota, New York City, U.S. Chapman planned the killing over several months and waited for Lennon at the Dakota on the morning of 8 December. Early in the evening, Chapman met Lennon, who signed his copy of the album *Double Fantasy* and subsequently left for a recording session at the Record Plant.

Who was John Lennon's biggest inspiration? Lennon was inspired by American rock legends like Elvis Presley and Chuck Berry. He took the music from these pioneers and put his own touch and Liverpudlian spin on it.

What was John Lennon favorite book? John Lennon's favorite book in childhood: *Alice in Wonderland*.

Which beatle beat his wife? The name John Lennon often goes hand-in-hand with “peace and love.” But the Beatle had a violent streak. His first wife, Cynthia Lennon, opened up about his physical abuse and the musician admitted that he was “a hitter” during an interview that took place just two days before his death.

Was John Lennon happy before he died? John Lennon Was 'So Happy' in His Final Days, Says Friend — but Faced Unsettling Premonitions (Exclusive)

How long was John Lennon a junkie? Lennon's addiction to heroin was worse than he publicly acknowledged. He started using it regularly in mid-1968, and continued using for about a year. He went through an agonizing withdrawal which he documented in the song *Cold Turkey*, but relapsed several times in the years following and never completely got over it.

What were John Lennon's last words? According to a new three-part docuseries, John Lennon's final words were “I'm shot”.

Who was the smartest beatle? In a 1987 interview, McCartney said that the other Beatles idolised Lennon: "He was like our own little Elvis ... We all looked up to John. He was older and he was very much the leader; he was the quickest wit and the smartest."

Was Yoko with John when he was shot? Ono was with Lennon at the time of his death. According to The Washington Post, the couple pulled up to the Dakota in a limousine and exited together before walking toward the doorway of their building. Lennon turned back when he heard someone calling his name, at which point he was shot.

Which beatle abandoned his son? "Very weird," says Julian. Julian, 35, is the Sixties child of John Lennon and his first wife, Cynthia; he was abandoned by his father when he was five and only recently received a share of the vast Lennon estate. Sean, 22, is the favoured son, for whom John Lennon became a househusband.

What did John Lennon suffer from? This psychological profile delves into the complex life of John Lennon, suggesting a post-mortem diagnosis of Borderline Personality Disorder as per criteria established by the Diagnostic and Statistical Manual of Mental Disorders (DSM-5).

Why didn't John Lennon have a funeral? Lennon typically aimed to steer clear of the extravagant spectacle that typified Elvis Presley's funeral, given his lifelong wariness of fame, and he likely foresaw that a physical gravestone would draw undue attention.

What is the most accurate Beatles biography? #1 – Tune In: The Beatles: All These Years This book has been almost universally lauded as the most thorough (944 pages), riveting and accurate story of the Fab Four.

Who is the greatest Beatle? People who said they loved at least one Beatle were asked which of those they love is their favorite. McCartney tops this list as well, by a bigger margin: 45% say he is their favorite. Lennon earns 27% of the vote, while Harrison (17%) and Starr (11%) take third and fourth place.

Did John Lennon read a lot? Lennon enjoyed reading and often referred to literature in his work. One of his favorite books was Alice in Wonderland.

Did John Lennon have kids? Lennon fathered two sons: He shares his older son, Julian Charles John, with his ex-wife Cynthia Lennon, and his younger son, Sean Tara Ono, with his widow, Yoko Ono. The brothers often look back on their father's life fondly.

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