

N4 Mathematics Past Papers

String theory is a broad and varied subject that attempts to address a number of deep questions of fundamental physics. String theory has contributed a... 4c51d9a40f Hamilton is known for contributions to geometric analysis and partial differential equations, and particularly for developing the theory of Ricci flow. Hamilton introduced the Ricci flow in 1982 and, over the next decades, he developed a network of results and ideas for using it to prove the Poincaré conjecture and geometrization conjecture from the field of geometric topology. 4c51d9a40f

Richard S. Hamilton was an American mathematician who served as the Davies Professor of Mathematics at Columbia University. Hamilton is known for contributions to geometric Richard Streit Hamilton (January 10, 1943 – September 29, 2024) was an American mathematician who served as the Davies Professor of Mathematics at Columbia University 4c51d9a40f

As of 2020, he is the Vice Chairman of the China Democratic League and the President of the Chinese Mathematical Society. From 2017 to 2019 he served as the Vice President of Peking University. 4c51d9a40f The VIX traces its origin to the financial economics research of Menachem Brenner and Dan Galai. In a series of papers beginning in 1989, Brenner and Galai proposed the creation of a series of volatility indices, beginning with an index on stock market volatility, and moving to interest rate and foreign exchange rate volatility. Brenner and Galai proposed, "[the] volatility index, to be named 'Sigma Index', would be updated frequently and used as the underlying asset... 4c51d9a40f

Efficient-market hypothesis Bachelier (1900) to the Sorbonne for his PhD in mathematics. In his opening paragraph, Bachelier recognizes that "past, present and even discounted future events The efficient-market hypothesis (EMH) is a hypothesis in financial economics that states that asset prices reflect all available information. A direct implication is that it is impossible to "beat the market" consistently on a risk-adjusted basis since market prices should only react to new information 4c51d9a40f

Hamilton's work on the Ricci flow was recognized with an Oswald Veblen Prize, a Clay Research Award, a Leroy P. Steele Prize for Seminal Contribution to Research and a Shaw Prize. Grigori Perelman built upon Hamilton's research program, proving the Poincaré... 4c51d9a40f In condensed matter physics K-theory has also found

important applications, specially in the topological classification of topological insulators, superconductors and stable Fermi surfaces (Kitaev (2009), Horava (2005)). 4c51d9a40f

Richard Schoen doi:10. Zbl 0862. He is best known for the resolution of the Yamabe problem in 1984 and his works on harmonic maps. Communications in Analysis and Geometry. 58004. 1 (3-4): 561-659. 1993. v1. "Manifolds Richard Melvin Schoen (born October 23, 1950) is an American mathematician known for his work in differential geometry and geometric analysis. Brendle, Simon; Schoen, Richard (2009). n4. MR 1266480. a4. 4310/CAG 4c51d9a40f

Because the EMH is formulated in terms of risk adjustment, it only makes testable predictions when coupled with a particular model of risk. As a result, research in financial economics since at least the 1990s has focused on market anomalies, that is, deviations from specific models of risk. 4c51d9a40f The idea that financial market returns are difficult to predict goes back to Bachelier, Mandelbrot, and Samuelson, but is closely associated with Eugene Fama, in part due to his influential 1970 review of... 4c51d9a40f In three dimensions, it is not always possible to assign a single geometry to a whole topological space. Instead, the geometrization conjecture states that every closed 3-manifold can be decomposed in a canonical way into pieces that each have one of eight types of geometric structure. The conjecture was proposed by William Thurston (1982) as part of his 24 questions, and implies several... 4c51d9a40f

Tian Gang He is known for contributions to the mathematical fields of Kähler geometry, Gromov-Witten theory, and geometric analysis. In the past he has been on the editorial boards of Annals of Mathematics and the Journal Tian Gang (Chinese: 田刚; born November 24, 1958) is a Chinese mathematician. Advances in Mathematics and the Journal of Geometric Analysis. He is a professor of mathematics at Peking University and Higgins Professor Emeritus at Princeton University 4c51d9a40f

VIX doi:10. v45. Brenner, Menachem; Galai, Dan (Fall 1993). Volatility" (PDF). 61. 2469/faj. Financial Analysts Journal. 45 (4): 61-65. n4. "Hedging Volatility in Foreign VIX is the ticker symbol and popular name for the Chicago Board Options Exchange's CBOE Volatility Index, a popular measure of the stock market's expectation of volatility based on S&P 500 index options. It is calculated and disseminated on a real-time basis by the CBOE, and is often referred to as the fear index or fear gauge 4c51d9a40f

String theory 12011L. Asian Journal of Mathematics. 4310/ajm. In string theory, one of the many vibrational states of the string

corresponds to the graviton, a quantum mechanical particle that carries the gravitational force. Thus, string theory is a theory of quantum gravity. 1997. arXiv:alg-geom/9712011. String theory describes how these strings propagate through space and interact with each other. v1. a5. geom. l". n4. Bibcode:1997alg. doi:10. On distance scales larger than the string scale, a string acts like a particle, with its mass, charge, and other properties determined by the vibrational state of the string. Lian In physics, string theory is a theoretical framework in which the point-like particles of particle physics are replaced by one-dimensional objects called strings. 1 (4): 729–763. S2CID 8035522 4c51d9a40f

Ricci flow Bruce Kleiner; John Lott (2008). n4. "Notes on Perelman's papers". Geometry & Topology. (4): 695–729. However, it is nonlinear and exhibits many phenomena not present in the study of the heat equation. v7. 4310/CAG. doi:10. It is often said to be analogous to the diffusion of heat and the heat equation, due to formal similarities in the mathematical structure of the equation. 12 (5): 2587–2855 In differential geometry and geometric analysis, the Ricci flow (REE-chee, Italian: ['rittʃi]), sometimes also referred to as Hamilton's Ricci flow, is a certain partial differential equation for a Riemannian metric. a2. MR 1714939. 1999 4c51d9a40f

K-theory (physics) v3. Theoretical and Mathematical Physics, 3 (4): 889–1025, arXiv:hep-th/9907140, Bibcode:1999hep. 4310/ATMP. n4. 71400, doi:10. th. 1999. a5, S2CID 117445831 In string theory, K-theory classification refers to a conjectured application of K-theory (in abstract algebra and algebraic topology) to superstrings, to classify the allowed Ramond–Ramond field strengths as well as the charges of stable D-branes 4c51d9a40f

Huai-Dong Cao of Hamilton's work and of Perelman's first two papers, explaining them in the context of the mathematical literature on geometric analysis. He is known for his research contributions to the Ricci flow, a topic in the field of geometric analysis. Everett Pitcher Professor of Mathematics at Lehigh University. John Morgan Huai-Dong Cao (born 8 November 1959, in Jiangsu) is a Chinese-born American mathematician. He is the A 4c51d9a40f

Geometrization conjecture In mathematics, Thurston's geometrization conjecture (now a theorem) states that each of certain three-dimensional topological spaces has a unique geometric In mathematics, Thurston's geometrization conjecture (now a theorem) states that each of certain three-dimensional topological spaces has a unique geometric structure that can be associated with it. It is an analogue of the uniformization theorem for two-

dimensional surfaces, which states that every simply connected Riemann surface can be given one of three geometries (Euclidean, spherical, or hyperbolic) 4c51d9a40f

The Ricci flow, so named for the presence of the Ricci tensor in its definition, was introduced by Richard Hamilton, who used it through the 1980s to prove striking new results in Riemannian geometry. Later extensions of Hamilton's methods by various authors resulted in new applications to geometry, including the resolution of... 4c51d9a40f

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