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String Path Integral Realization of Vertex Operator Algebras (Memoirs of the American Mathematical Society)

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String Path Integral Realization of Vertex Operator Algebras

The path integral formulation is a description in quantum mechanics that generalizes the action principle of classical mechanics. It replaces the classical notion of a single, unique classical trajectory for a system with a sum, or functional integral, over an infinity of quantum-mechanically possible trajectories to compute a quantum amplitude.

Path integral formulation - Wikipedia

path integral formalism, it is obtained by integration of an appropriate weight over $X(z, t)$ and $\psi(z, t)$ with the constraint (1) imposed, together with the insertions of the vertex operators for the closed F-string states. Also, as usual, we will include in our formalism

Interaction of D-string with F-string: A Path-Integral ...

Evaluation of the one loop string path integral. Joseph Polchinski. Full-text: Open access. PDF File (894 KB) Article info and citation; First page; Article information. Source Comm. Math. Phys., Volume 104, Number 1 (1986), 37-47. Dates First available in Project Euclid: 26 December 2004 ...

Polchinski : Evaluation of the one loop string path integral

Dissertation: String Path Integral Realization of Vertex Operator Algebras. Advisor: James Ivan Lepowsky. No students known. If you have additional information or corrections regarding this mathematician, please use the update form.

Haruo Tsukada - The Mathematics Genealogy Project

A path integral formalism is developed to study the interaction of an arbitrary curved Dirichlet (D-) string with elementary excitations of the fundamental (F-) string in bosonic string theory.

Interaction of D-string with F-string: A Path-Integral ...

Abstract: A path integral formalism is developed to study the interaction of an arbitrary curved Dirichlet (D-) string with elementary excitations of the fundamental (F-) string in bosonic string theory.

Interaction of D-string with F-string: A Path-Integral ...

A Path Integral Realization of Joint JT , Tj and TT Flows Jeremias Aguilera-Damia a, Victor I. Giraldo-Rivera by, Edward A. Mazenc z, Ignacio Salazar Landea b x, Ronak M. Soni c { a Centro Atómico Bariloche and CONICET, R8402AGP, Argentina b Instituto de Física La Plata-CONICET & Departamento de Física, Universidad Nacional de La Plata, C.C. 67, 1900, La Plata Argentina

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String path integral realization of vertex operator ...

String path integral realization of vertex operator algebras. [Haruo Tsukada] -- We establish relations between vertex operator algebras in mathematics and string path integrals in physics. In particular, we construct the basic representations of affine Lie algebras of [italic ...

String path integral realization of vertex operator ...

The second part of the thesis deals with the Schwinger effect in scalar quantum electrodynamics and in bosonic string theory. Chapter 4 presents a detailed study of the semiclassical expansion of the world line path integral for a charged relativistic particle in a constant external electric field.

Applications of Path Integral Localization to Gauge and ...

Quantum field theory. Heuristic Feynman path integrals are commonly used by physicists as a tool for formulating contemporary theories of quantum fields, gauge fields, quantum gravity, and various approaches to quantum gravity (loop quantum gravity, string theory).

Path integral: mathematical aspects - Scholarpedia

In the path integral formulation of Chern-Simons theory this means that to the integrand is added the Wilson loop $W(\Sigma_{\text{def}}, R, A)$ of the principal connection around $\Sigma_{\text{def}} \subset \Sigma$ $\propto \int_{\text{DA}} W(\Sigma_{\text{def}}, R, A) \exp(i\text{SCS}(A))$.

Chern-Simons theory in nLab

5 The Polyakov path integral 32 ... String theory gives us hope for a nite theory of quantum gravity with some prospect of lower-energy model building? No! The extremely rich structure of string theory has led to many important insights into a range of topics, such as nonperturbative dualities

Lectures on String Theory - University of California, Irvine

Four-Gauge-Particle Scattering Amplitudes in String Theory 1 String theory and its Low energy dynamics. 2 String theory o ers scattering amplitudes. 3 Low energy dynamics of particle physics is described by QFT. 4 Tachyon in open string theory. 5 Realization of Higgs mechanism in string theory 6 Compatibility of string theory in low energy with SM model. 7 Tachyon in closed string theory and ...

Four-Particle-Scattering Amplitudes in String Theory

Fermionic strings with Fermionic mass points are introduced. Now there are both spacelike oscillations as well as spin oscillations. The notion of a world sheet, traced out by a string over time, is introduced. Path integrals are defined with respect to the world sheet and lead to the Laplace equation.

Fermionic strings and path integrals | The Theoretical Minimum

A Path Integral Realization of joint JT , Tj and TT Flows. arXiv. Retrieved from https://arxiv.org/abs/1910.06675 Hartnoll, S. A., Huijse, L., & Mazenc, E. A. (2017). Matrix quantum mechanics from qubits.

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