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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 ...

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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 fundumental (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 fundumental (F-) string in bosonic string theory.

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This work presented a path integral realization of Lorentz breaking irrelevant JT and TJ defor-mations. We have recast their joint flow with TT in (1.7) as coupling the seed to a topological quantumgravityandgaugetheory. AsitwasforitspureTT predecessor,ourpathintegralkernel

A Path Integral Realization of and - arXiv
In the path integral formulation of Chern-Simons theory this means that to the integrand is added the Wilson loop W(Σdef, R, A) of the principal connection around Σdef Z(Σdef, Σ) ∝ ∫DA W(Σdef, R, A)exp(iSCS(A)).

Chern-Simons theory in nLab
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
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
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Spin foam is simply the path integral formulations of loop quantum gravity. [Path integral formulation is the mathematical theory for understanding all the possible paths a quantum particle can take to get from one point to another.] So loop quantum gravity is about describing the quantum geometry of space-time.

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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.

Edward Mazenc | Institute for Theoretical Physics
by the path-integral also have own A□/L□ automatically! (e.g. effective theories, amplitudes, current recursion relations, or symmetries under RG flows) •String field theory is a consistent UV finite theory: It gives typical examples to which you can apply these ideas “easily”. In this talk, I will explain these meanings more ...