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Analyticity In Quantum Field Theory

Summary. The leading singularity is studied in scalar triangle graphs. We

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observe that in some examples of practical interest like the « form factors » the anomalous singularity does not arise when we perform the momentum integrations in the Feynman-Stückelberg amplitudes, indicating that quantum field theory will not necessarily yield the so-called analytic scattering amplitudes.

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Quantum field theory with « shadow states » is examined and found to be consistent with macroscopic causality, though not necessarily leading to the so-called normal analytic scattering amplitudes. The consequences from causality in high-energy physics are

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studied, with particular reference to the well-known claim that a strong connection exists betwe

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Analytic Properties of Feynman Diagrams in Quantum Field Theory deals with quantum field theory, particularly in

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the study of the analytic properties of Feynman graphs. This book is an elementary presentation of a self-contained exposition of the majorization method used in the study of these graphs.

Analytic Properties of Feynman Diagrams in Quantum Field ...

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In axiomatic quantum field theory the physical quantities arise as boundary values of some classes of analytic functions of several complex variables holomorphic in some primitive domains defined by axioms. But in the complex space C^N of dimension $N > 2$ an arbitrary domain is not in general a domain of holomorphy.

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ANALYTIC FUNCTIONS OF SEVERAL COMPLEX VARIABLES AND ...

We argue that certain apparently consistent low-energy effective field theories described by local, Lorentz-invariant Lagrangians, secretly exhibit macroscopic non-locality and cannot be embedded in any UV theory whose S-

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matrix satisfies canonical analyticity constraints. The obstruction involves the signs of a set of leading irrelevant operators, which must be strictly positive to ensure UV ...

[hep-th/0602178] Causality, Analyticity and an IR ...

Coherent States in Field Theory ... the

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basic formulation of quantum field theory in terms of coherent ... Because of the overcompleteness and the analyticity of these states, one can expand the density operator by (12) in a diagonal form (the so-called P-representation [7]):

Coherent States in Field Theory

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Then, a few years ago, Stephen Jordan, Keith Lee, and John Preskill gave the first detailed, efficient simulation of a “realistic” quantum field theory using a standard quantum computer ...

Is There Anything Beyond Quantum Computing? | NOVA | PBS

Chapter 1: Generalities on Quantum

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Causality And Field Theory .

1.1 Classical Mechanics
1.2 Classical Field Theory 1.3 Brownian
Motion 1.4 Quantum Mechanics 1.5
Quantum Field Theory. Chapter 2: The
Steepest Descent and Stationary Phase
Formulas . 2.1 The Steepest Descent
Formula 2.2 Stationary Phase Formula
2.3 Non-analyticity of $I(\hbar)$ and Borel
Summation

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Lecture Notes | Geometry and Quantum Field Theory ...

The principle behind the Regge theory hypothesis (also called analyticity of the second kind or the bootstrap principle) is that all strongly interacting particles lie on Regge trajectories.

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General relativity, the Einsteinian field theory of gravity, has yet to be successfully quantized. However an extension, thermal field theory, deals with quantum field theory at finite temperatures, something seldom considered in quantum field theory. In BRST theory one deals with odd fields,

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e.g. Faddeev-Popov ghosts.

Field (physics) - Wikipedia

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Geometric Analysis and Applications to Quantum Field Theory

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views Wick rotation: still trouble in
getting how it works. I'm preparing my
second exam in QFT and I still have
trouble in getting the Wick rotation and
its analytic continuation. I know that this
topic have been discussed a ...

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quantum field theories. The infra-red limit of a physical quantity is shown to equal the limiting value of the Borel transform in a complex scale parameter, where the order of the Borel transform is related to the domain of analyti

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Durham E-Theses Analyticity and scaling in quantum field theory

We derive the analytical properties of the elastic forward scattering amplitude of two scalar particles from the axioms of the noncommutative quantum field theory. For the case of only space-space noncommutativity, i.e., $\theta_{0i} = 0$, we

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prove the dispersion relation which is similar to the one in commutative quantum field theory.

Analyticity and forward dispersion relations in ...

to a preliminary study of the domain of analyticity of such invariant analytic functions. The third part applies the

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preceding results to quantum field theory . It is shown that the vacuum expectation value $(\Omega, \phi(x_1) \cdots \phi(x_n) \Omega) = F(n)(x_1, \dots, x_n)$ where $\phi(x)$ is neutral scalar field, is an analytic function of the

A THEOREM ON INVARIANT ANALYTIC FUNCTIONS WITH ...

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Axiomatic quantum field theory is a mathematical discipline which aims to describe quantum field theory in terms of rigorous axioms. It is strongly associated with functional analysis and operator algebras, but has also been studied in recent years from a more geometric and functorial perspective. There are two main challenges in this

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Axiomatic quantum field theory - Wikipedia

string amplitudes satisfy the same analyticity properties as amplitudes in local quantum field theories— indeed, the Veneziano amplitude arose from S-matrix theory— the same argument

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applies to weakly coupled strings. Thus, while string theory is certainly non-

Causality, analyticity and an IR obstruction to UV completion

However, through some basic assumptions in quantum field theory, like analyticity and unitarity, ... Browse other questions tagged quantum-field-

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