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Analyticity In Quantum Field Theory
Summary. The leading singularity is

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studied in scalar triangle graphs. We 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

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causality in high-energy physics are 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

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with quantum field theory, particularly in 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

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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

Durham E-Theses Analyticity and

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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 \mathbb{C}^N of dimension $N > 2$ an arbitrary domain is not in general a

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ANALYTIC FUNCTIONS OF SEVERAL COMPLEX VARIABLES AND ...

to a preliminary study of the domain of analyticity of such invariant analytic functions. The third part applies the preceding results to quantum field theory . It is shown that the vacuum

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expectation value $(\Omega, \phi(x_1) \cdots \phi(x_n))$
 $(\Omega, \phi(x_1) \cdots \phi(x_n)) = F(x_1, \dots, x_n)$ where $\phi(x)$
 $\phi(x)$ is neutral scalar field, is an analytic
function of the

A THEOREM ON INVARIANT ANALYTIC FUNCTIONS WITH ...

The application of the new quantum
theory to electromagnetism resulted in

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quantum field theory, which was developed starting around 1930. Quantum field theory has driven the development of more sophisticated formulations of quantum mechanics, of which the ones presented here are simple special cases.

Mathematical formulation of

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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-matrix satisfies canonical analyticity constraints. The obstruction involves the

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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 basic formulation of quantum field theory in terms of coherent ... Because

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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

The principle behind the Regge theory hypothesis (also called analyticity of the

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second kind or the bootstrap principle) is that all strongly interacting particles lie on Regge trajectories. This was considered the definitive sign that all the hadrons are composite particles, but within S-matrix theory, they are not thought of as being made up of elementary constituents.

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The Analyticity Program in Axiomatic Quantum Field Theory - NASA/ADS This paper reviews some topics and results of the linear and the nonlinear programs of Axiomatic Quantum Field Theory. Applications to Constructive Field Theory are also discussed. <P />

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The Analyticity Program in Axiomatic Quantum Field Theory ...

quantum-field-theory time analyticity.
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2 bronze badges. 4. votes. 2 answers 348
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

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its analytic continuation. I know that this topic have been discussed a ...

Newest 'analyticity' Questions - Physics Stack Exchange

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

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matrix theory—the same argument applies to weakly coupled strings. Thus, while string theory is certainly non-

Causality, analyticity and an IR obstruction to UV completion

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This is forbidden according to normal probability theory, but quantum negativity makes it possible." ... and better ways of measuring the earth's magnetic field can lead to better navigation tools.

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'Quantum negativity' can power ultra-precise measurements

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 prove the dispersion relation which is

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similar to the one in commutative quantum field theory.

Analyticity and forward dispersion relations in ...

Axiomatic quantum field theory is a mathematical discipline which aims to describe quantum field theory in terms of rigorous axioms. It is strongly

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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 discipline.

**Axiomatic quantum field theory -
Wikipedia**

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Quantum field theory remains among the most important tools in defining and explaining the microscopic world. Recent years have witnessed a blossoming of developments and applications that extend far beyond the theory's original scope. ... 5.3.5 Momentum Transfer

Analyticity 6. Perturbation Theory 6.1
Interaction Representation and Feynman

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Quantum Field Theory : Claude Itzykson : 9780486445687

General discussion of the analyticity properties of Feynman diagrams. Cutting rules and the Cutkosky unitarity relations. Unstable particles and second sheet singularities. Dispersion relations

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and the Mandelstam representation. The analytic S-matrix theory and the bootstrap hypothesis.

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