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Wave Equations On Lorentzian Manifolds

Wave Equations on Lorentzian Manifolds and Quantization. Authors: Christian Baer, Nicolas Ginoux, Frank Pfaeffle. Download PDF. Abstract: This book provides a detailed introduction to linear wave equations on Lorentzian manifolds (for vector-bundle valued fields). After a collection of preliminary material in the first chapter one finds in the second chapter the construction of local fundamental solutions together with their Hadamard expansion.

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In General Relativity spacetime is modelled by a Lorentzian manifold,

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see e. g. [8, 15]. Many physical phenomena, such as electro-magnetic radiation, are described by solutions to certain linear wave equations defined on this spacetime manifold. Thus a good understanding of the theory of wave equations is crucial. This includes initial ...

Linear wave equations on Lorentzian manifolds

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Christian Bar" Nicolas Ginoux Frank Pfafie"

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spacetime is modelled by a lorentzian manifold see e.g. [8, 15] many physical phenomena such as electro magnetic radiation

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A linear wave equation is an equation of the form $Pu=f$ with given f and an unknown section u . By the Cauchy problem we mean the problem of solving such a wave equation while imposing initial value conditions of zeroth and first order. More precisely, let $S \subset M$ be a smooth 3

Wave and Dirac equations on manifolds

Let $(M;g)$ be a $(1 + 3)$ -dimensional Lorentzian manifold with boundary ∂M , where the metric g is of signature $(-;+;+;+)$. We assume that $M \cong \mathbb{R}$

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@N, and write the metric $g = (t;x_0)dt^2 + (t;x_0)$; where $x = (t;x_0) = (x_0;x_1;x_2;x_3)$ are local coordinates on M ; here, $: \mathbb{R} \rightarrow N \setminus \{0,1\}$ is a smooth

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