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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.

[0806.1036] Wave Equations on Lorentzian Manifolds and ...

In General Relativity spacetime is modelled by a Lorentzian manifold, 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 ma nifold. Thus a good under-standingof the theoryof wave equationsis crucial. This includesinitial ...

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electromagnetic ﬁeld, are deﬁned on this manifold and have t o satisfy a wave equation. This book provides an introduction to the theory of linear wave equations on Lorentzian manifolds. In contrast to other texts on this topic [Friedlander1975, Gu¨nther1988] we develop the global theory. This means, we ask for existence and uniqueness of solutions

Christian Bar¨ Nicolas Ginoux Frank Pfaffle¨
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Library manifolds and quantization in general relativity spacetime is modelled by a lorentzian manifold see e g 8 15 many physical phenomena such as electro magnetic radiation

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