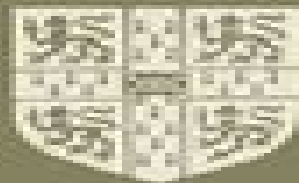


# **The interacting boson-fermion model**

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discrete space times and Sewell's measurement theory in which the wave packet is reduced without recourse to the observer's conscious ego nonlinearities or interaction with the rest of the universe The definition of causality on a discrete space time assumes that space time is made up of geometrical points Using Sewell's measurement theory the author concludes that the notion of geometrical points is as meaningful in quantum mechanics as it is in classical mechanics and that it is impossible to tell whether the differential calculus is a discovery or an invention Providing a mathematical discourse on the relation between theoretical and experimental physics the book gives detailed accounts of the mathematically difficult measurement theories of von Neumann and Sewell

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Maeda, 2003-01-02 The scalar tensor theory of gravitation is one of the most popular alternatives to Einstein's theory of gravitation This book provides a clear and concise introduction to the theoretical ideas and developments exploring scalar fields and placing them in context with a discussion of Brans Dicke theory Topics covered include the cosmological constant problem time variability of coupling constants higher dimensional space time branes and conformal transformations The authors emphasize the physical applications of the scalar tensor theory and thus provide a pedagogical overview of the subject keeping more mathematically detailed sections for the appendices This book is suitable for graduate courses in cosmology gravitation and relativity It will also provide a valuable reference for researchers

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**Advanced General Relativity** John Stewart, John M. Stewart, 1993-11-26 A self contained introduction to advanced general relativity

Exact Solutions of Einstein's Field Equations Hans Stephani, Dietrich Kramer, Malcolm MacCallum, Cornelius Hoenselaers, Eduard Herlt, 2009-09-24 A paperback edition of a classic text this book gives a unique survey of the known solutions of Einstein's field equations for vacuum Einstein Maxwell pure radiation and perfect fluid sources It introduces the foundations of differential geometry and Riemannian geometry and the methods used to characterize find or construct solutions The solutions are then considered ordered by their symmetry group their algebraic structure Petrov type or other invariant properties such as special subspaces or tensor fields and embedding properties Includes all the developments in the field since the first edition and contains six completely new chapters covering topics including generation methods and their application colliding waves classification of metrics by invariants and treatments of homothetic motions This book is an important resource for graduates and researchers in relativity theoretical physics astrophysics and mathematics It can also be used as an introductory text on some mathematical aspects of general relativity

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