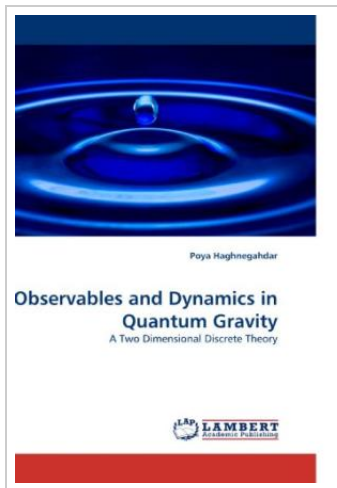




Observables and Dynamics in Quantum Gravity

By Haghnegahdar, Poya

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | A Two Dimensional Discrete Theory | Merging the concepts of quantum mechanics and those of general relativity presents us with one of the most interesting and fundamental contradictions in physics; how should we define time? In quantum mechanics time is a non-dynamical external parameter. In general relativity, time is one of the four dynamical variables of spacetime. How can we put these two different concepts together? What is the proper definition for a quantum relativistic time? This question has been occupying many theoretical physicist for the past eighty years, and despite many advances, and a number of possible candidates for a correct theory of quantum gravity, no unified answer has yet been reached. In this book, we explore this question in detail. We present two of the main candidates which attempt to address it, namely Loop Quantum Gravity and String Theory. We do this in the very simple yet effective context of a two dimensional spacetime or worldsheet. Through this work, the reader can become familiar with the elementary concepts of these theories of quantum gravity, and should see that despite their progress we are yet quite far from any satisfactory answer...



READ ONLINE
[1.75 MB]

Reviews

A very wonderful book with lucid and perfect answers. It is probably the most incredible book i have study. Its been designed in an exceptionally simple way and is particularly just after i finished reading through this publication by which in fact transformed me, alter the way in my opinion.

-- **Macey Schneider**

Great electronic book and valuable one. It really is simplistic but surprises within the fifty percent from the book. Its been printed in an extremely simple way in fact it is merely right after i finished reading this publication by which in fact modified me, change the way i really believe.

-- **Dr. Bethany Lindgren**