

1. Record Nr.	UNINA9910739406003321
Autore	Lienert Matthias
Titolo	Multi-time Wave Functions : An Introduction / / by Matthias Lienert, Sören Petrat, Roderich Tumulka
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-60691-0
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (VIII, 89 p. 30 illus.)
Collana	SpringerBriefs in Physics, , 2191-5431
Disciplina	530.12
Soggetti	Quantum physics General relativity (Physics) Elementary particles (Physics) Quantum field theory Quantum electrodynamics Quantum Physics General Relativity Elementary Particles, Quantum Field Theory Quantum Electrodynamics, Relativistic and Many-body Calculations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction and Overview -- Consistency Conditions -- Relativistic Point Interactions -- Multi-Time Quantum Field Theory -- Interior-Boundary Conditions -- Born's Rule -- Multi-Time Integral Equations.
Sommario/riassunto	The natural generalization of the quantum-mechanical N-particle wave function to relativistic space-time is a function of N space-time points, and thus of N time variables. This book, a collection of lectures given at a spring school in Tübingen in 2019, provides an accessible and concise introduction to the recent development of the theory of multi-time wave functions, their use in quantum field theory, their relation to detection probabilities, and the mathematical question of consistency of their time evolution equations. The book is intended for advanced students and researchers with an interest in relativity and quantum physics.

