

1. Record Nr.	UNINA9910346705903321
Autore	Braumüller Jochen
Titolo	Quantum simulation experiments with superconducting circuits
Pubbl/distr/stampa	KIT Scientific Publishing, 2018
ISBN	1000081315
Descrizione fisica	1 online resource (III, 149 p. p.)
Collana	Experimental Condensed Matter Physics / Karlsruher Institut für Technologie, Physikalisches Institut
Soggetti	Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	While the universal quantum computer seems not in reach for the near future, this work focusses on analog quantum simulation of intriguing quantum models of light-matter interactions, with the goal of achieving a computational speed-up as compared to classical hardware. Existing building blocks of quantum hardware are used from superconducting circuits, that have proven to be a very suitable experimental platform for the implementation of model Hamiltonians at a high degree of controllability.