

1. Record Nr.	UNINA9910813171203321
Autore	Bruillard Paul <1984->
Titolo	Topological phases of matter and quantum computation : AMS Special Session on Topological Phases of Matter and Quantum Computation, September 24-25, 2016, Brunswick, Maine // Paul Bruillard, Carlos Ortiz Marrero, Julia Plavnik, editors
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2020] ©2020
ISBN	1-4704-5457-2
Descrizione fisica	1 online resource (242 pages)
Collana	Contemporary mathematics, ; 747 , 0271-4132
Classificazione	81R5016D9081T0520G4218D1019D23
Disciplina	006.3/843
Soggetti	Quantum theory -- Quantum field theory; related classical field theories -- Axiomatic quantum field theory; operator algebras Quantum theory -- Groups and algebras in quantum theory -- Quantum groups and related algebraic methods Group theory and generalizations -- Linear algebraic groups and related topics Category theory; homological algebra Associative rings and algebras -- Modules, bimodules and ideals -- Module categories; module theory in a category-theoretic context; Morita K-theory -- Higher algebraic K-theory -- Symmetric monoidal categories Topological groups Quantum groups Quantum computing Categories (Mathematics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Lie theory for fusion categories : a research primer / Andrew Schopieray -- Entanglement and the Temperley-Lieb category / Michael Brannan and Benoit Collins -- Lifting shadings on symmetrically self-dual subfactor planar algebras / Zhengwei Liu, Scott Morrison, and David Penneys -- Q-systems and compact $W^*$ -algebra

objects / Corey Jones and David Penneys -- Dimension as a quantum statistic and the classification of metaplectic categories / Paul Bruillard, Paul Gustafson, Julia Plavnik, and Eric Rowell -- The rank of  $G$ -crossed braided extensions of modular tensor categories / Marcel Bischoff -- Symmetry defects and their application to topological quantum computing / Colleen Delaney and Zhenghan Wang -- Topological quantum computation with gapped boundaries and boundary defects / Iris Cong and Zhenghan Wang -- Classification of gapped quantum liquid phases of matter / Xiao-Gang Wen -- Schur-type invariants of branched  $G$ -covers of surfaces / Eric Samperton -- Quantum error-correcting codes over finite Frobenius rings / Andreas Klappenecker, Sangjun Lee, and Andrew Nemeč -- A short history of frames and quantum designs / Bernhard Bodmann and John Haas.

---