1. Record Nr. UNINA9910457513203321

Autore	Aschbacher Michael <1944->
Titolo	Fusion systems in algebra and topology / / Michael Aschbacher, Radha Kessar, Bob Oliver [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	1-107-23223-6 1-139-10184-6 1-139-10364-4 1-299-40566-5 1-139-10118-8 1-139-09916-7 1-139-00384-4
Descrizione fisica	1 online resource (vi, 320 pages) : digital, PDF file(s)
Collana	London Mathematical Society lecture note series ; ; 391
Disciplina	512/.2
Soggetti	Combinatorial group theory Topological groups Algebraic topology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to fusion systems -- The local theory of fusion systems -- Fusion and homotopy theory -- Fusion and representation theory -- Appendix A. Background facts about groups.
Sommario/riassunto	A fusion system over a p-group S is a category whose objects form the set of all subgroups of S, whose morphisms are certain injective group homomorphisms, and which satisfies axioms first formulated by Puig that are modelled on conjugacy relations in finite groups. The definition was originally motivated by representation theory, but fusion systems also have applications to local group theory and to homotopy theory. The connection with homotopy theory arises through classifying spaces which can be associated to fusion systems and which have many of the nice properties of p-completed classifying spaces of finite groups. Beginning with a detailed exposition of the foundational material, the authors then proceed to discuss the role of fusion systems

in local finite group theory, homotopy theory and modular representation theory. This book serves as a basic reference and as an introduction to the field, particularly for students and other young mathematicians.