

1. Record Nr.	UNINA9910481009903321
Autore	Kida Yoshikata <1982->
Titolo	The mapping class group from the viewpoint of measure equivalence theory // Yoshikata Kida
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2008] ©2008
ISBN	1-4704-0522-9
Descrizione fisica	1 online resource (206 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; number 916
Disciplina	511.3/26
Soggetti	Mappings (Mathematics) Class groups (Mathematics) Measure theory Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"November 2008, volume 196, number 916 (third of 5 numbers)."
Nota di bibliografia	Includes bibliographical references (pages 183-186) and index.
Nota di contenuto	""Contents""; ""Chapter 1. Introduction""; ""Chapter 2. Property A for the curve complex""; ""1. Geometry of the curve complex""; ""2. Generalities for property A""; ""3. Property A for the curve complex""; ""4. Exceptional surfaces""; ""Chapter 3. Amenability for the action of the mapping class group on the boundary of the curve complex""; ""1. The mapping class group and the Thurston boundary""; ""2. The boundary at infinity of the curve complex""; ""3. Amenability for the actions of the mapping class group""; ""4. The boundary of the curve complex for an exceptional surface"" ""Chapter 4. Indecomposability of equivalence relations generated by the mapping class group"" ""1. Construction of Busemann functions and the MIN set map""; ""2. Preliminaries on discrete measured equivalence relations""; ""3. Reducible elements in the mapping class group""; ""4. Subrelations of the two types: irreducible and amenable ones and reducible ones""; ""5. Canonical reduction systems for reducible subrelations""; ""6. Indecomposability of equivalence relations generated by actions of the mapping class group""; ""7. Comparison with hyperbolic groups""

Chapter 5. Classification of the mapping class groups in terms of measure equivalence I
1. Reducible subrelations, revisited
2. Irreducible and amenable subsurfaces
3. Amenable, reducible subrelations
4. Classification
Chapter 6. Classification of the mapping class groups in terms of measure equivalence II
1. Geometric lemmas
2. Families of subrelations satisfying the maximal condition
3. Application I (Invariance of complexity under measure equivalence)
4. Application II (The case where complexity is odd)
5. Application III (The case where complexity is even)
Appendix A. Amenability of a group action
1. Notation
2. Existence of invariant means
3. The fixed point property
Appendix B. Measurability of the map associating image measures
Appendix C. Exactness of the mapping class group
Appendix D. The cost and l^2 -Betti numbers of the mapping class group
1. The cost of the mapping class group
2. The l^2 -Betti numbers of the mapping class group
Appendix E. A group-theoretic argument for Chapter 5
Bibliography
Index
A
B
C
D
E
F
G
H
I
L
M
N
O
P
Q
R
S
T
U
V
W
