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 16, 2018 Contents 1 Fundamental Concepts 2 2 The  
 Functor  $\check{Y}^1: Ho(Top) \rightarrow Grp$  3 3 Basic Covering Space  
 Theory And  $\check{Y}^1(S^1;)$  5 4 The Fundamental Group Of A  
 CW-complex 6 5 Van Kampen's Theorem 9 6 Further  
 Covering Space Theory 11 7 Hawaiian Earring 16 8 The  
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 Algebraic Topology Dr. Rasmussen (J.Rasmussen@dpmms.cam.ac.uk) Typeset By Aaron Chan (akyc2@cam.ac.uk) Last Update: December 1, 2009

1 Homotopy Equivalence  $X;Y$  Topological Spaces  
 $\text{Map}(X;Y) = \text{Ff}: X \rightarrow Y$  F Continuous  
 Convention: All Spaces Are Topological, All Maps Are Continuous

Definition 1.1  $F_0; f_1: X \rightarrow Y$  ! Apr 2th, 2024 Algebraic  
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 A Lot Of Choices That Are Combinatorial Rather Than  
 Topological In Character. A More flexible Model, One  
 More Closely Reflecting Topological Information, Is  
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 Example 1.14  $\mathbb{R}$  with the standard topology (Tstand).  
 Consider  $\mathbb{R} \times \mathbb{R} = \mathbb{R}^2$ . Claim:  $E$  product topology on  $\mathbb{R}^2$   
 and the metric topology are the same ... Mar 9th, 2024.  
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 Künneth Theorem 132 3. Hom Functors And Universal  
 Coefficients In Cohomology 133 4. Proof Of The  
 Universal Coefficient Theorem 135 5. Relations  
 Between  $\otimes$  and Hom 136 Chapter 18. Axiomatic And  
 Cellular Cohomology Theory 137 1. Axioms For  
 Cohomology 137 2. Cellular And Singular Co Mar 4th,  
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Space And Stashe Polytope 2 2. Rooted Ribbon Tree 5  
3. Stashe Polytopes And A N-space 8 4. Two  
Realizations Of Stashe Polytopes K N 11 4.1. Moduli  
Space Of (bordered) Stable Curves 11 4.2. Con  
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