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Algebraic Topology

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 $\text{Map}(X;Y) = \text{Ff: } X \rightarrow Y$ Continousg Convention: All Spaces Are Topological, All Maps Are Continuous Definition 1.1 $F_0;f_1: X \rightarrow Y$ May 6th, 2024

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1.1 Topological spaces and continuous functions Example 1.14 \mathbb{R} with the standard topology (T_{stand}). 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 1th, 2024

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