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Geometry, Topology and Physics I 1 2 M.Kreuzer / version September 30, 2009 Examples: The power set $P(X)$ and $\{\hat{\alpha} \dots, X\}$ are called discrete and indiscrete topology, respectively.

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Topology and continuity on the one hand and geometry or metric and distance on the other hand are intimately connected pairs of concepts of central relevance both in analysis and physics. A totally non-trivial concept in this connection is parallelism. (a) (b) $f: W_2 \rightarrow W_1$ $x \mapsto g(x)$ $V \rightarrow U_1 \rightarrow U_2 \rightarrow V$ $x \mapsto f(x)$ Figure 0.1: Mappings from a two-dimensional area into the real line.

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Errata for Geometry, Topology and Physics (Second Edition) by Mikio Nakahara This is an unofficial and incomplete list of errors and typos found in the second edition

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