

Intro to Latex

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1 Vector Bundles

This notes are my notes on the first chapter of K -Theory by M. Atiyah.

First we define a family of vectorspaces over a base space X .

Definition 1 *Let X be a topological space. Then a topological space E with a projection p is a Family of vector spaces over X if*

1. $p : E \rightarrow X$ is continuous
2. The pre image of every open set in X is a finite dimensional vectorspace in E .

This definition is very abstract to start with so I will discribe some simple examples. Effectivly what we are doing is assing a vector space to every point in the base space X .