#### Scuola di Scienze Dipartimento di Fisica e Astronomia Corso di Laurea in Fisica

### TITOLO TESI

Relatore: Presentata da: Prof.ssa. Rita Fioresi Tommaso Lamma

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# Chapter 1

## Introduction

- 1.1 Abstract simplicial complexes
- 1.2 Differential forms on abstract simplicial complexes
- 1.3 Integration on simplicial chains
- 1.4 Smooth real manifolds and abstract graphs