

# Topic 4: Calculus

Seppe Staelens

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## Introduction

### 1 Lecture 1: Continuity, differentiability

mean value thm, Taylor's thm

## 2 Lecture 2: Integrals

### **3 Lecture 3: Differential equations**

## 4 Lecture 4: Optimization, advanced integration

Likelihood optimization

Center of mass