Distribution Theory and Applications

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Introduction

These notes are based on the course lectured by Dr Anthony Ashton in Michaelmas 2020. Due to the measures taken in the UK to limit the spread of Covid-19, these lectures were delivered online. These are not meant to be an accurate representation of what was lectures. They solely represent a mix of what I thought was the most important part of the course, mixed in with many (many) personal remarks, comments and digressions... Of course, any corrections/comments are appreciated.

Unfortunately, this course does not require any knowledge of measure theory, and the like, but it does focus a bit more on the applications of the matter.

1 Motivation

Let's start with some questions that motivate the area... Ashton starts by asking, what is the derivative of the Dirac δ (although really, at this point we may as well ask what the Dirac δ is in the first place).

[In the end I decided not to take this course.]