

Report - Homework 1

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1 Introduction

By the end of this course, I aim to have a solid understanding of the main computational tools used in (theoretical) Physics.

While I have been using Python, LaTeX and Git for a few years now, I've never been explained *how* to use them properly, relying instead on quick and mindless Google searches to fix the issues. I consider myself relatively competent in using LaTeX, which I used for note-taking all throughout my undergraduate studies and for writing both my bachelor's and master's thesis. On the other end, being a bit self-conscious about (my lack of) skills, I tend to limit the use of Python and Git as much as possible I would like to gain confidence in my computational skills, stop seeing them as one of my weaknesses, and introduce some numerics in my work.

After completing my PhD, I plan to seek a career in academia.

My GitHub account is called *MatteoDellAcqua6121*.

2 Results

I report the plot of the Gaussian on the next page. The script and the raw file of the image are in this directory.

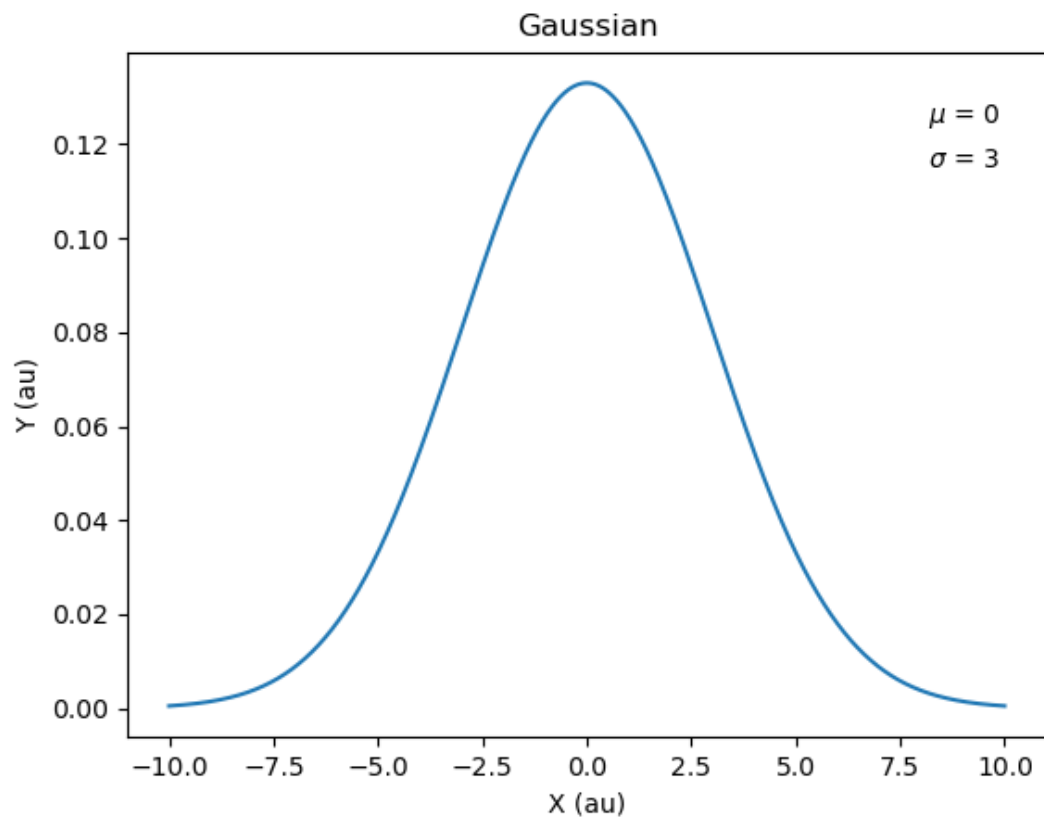


Figure 1: Plot of a normalized Gaussian mean $\mu = 0$ and a standard deviation $\sigma = 3$ (in arbitrary units) over the range $[-10, +10]$.