

FULL TITLE OF THE REPORT

Month 2023

AUTHOR(S):

Name of the Author

XYZ Competence Centre etc.

SUPERVISOR(S):

First Name Family Name First Name Family Name





PROJECT SPECIFICATION

Your Project Specification goes here.



ABSTRACT

Abstract of your Report.



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1 INTRODUCTION

Hello world! If you are one of those exceptional minds that does not like to use Word, please be welcome and use this LATEX template for your project report! A preview of you face in this exact moment is presented in Figure 1. More information is available for instance at https://www.overleaf.com/learn/latex/Inserting_Images.



Figure 1: Example of a figure from Ref. [2]

A. MORE

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B. EVEN MORE

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i. More more, maybe?

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ii. This is really the last one

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2 MORE BUT BIGGER

Another section. Custom environment longlisting used in Listing 1 enables page breaks within the code snippet.

A. ABOUT LISTINGS

More information on code snippets is available for instance at:

- https://www.overleaf.com/learn/latex/Code_Highlighting_with_minted,
- minted package documentation.

```
import numpy as np
```

```
def incmatrix(genl1,genl2):
m = len(genl1)
n = len(gen12)
M = None #to become the incidence matrix
VT = np.zeros((n*m,1), int) #dummy variable
 #compute the bitwise xor matrix
M1 = bitxormatrix(genl1)
M2 = np.triu(bitxormatrix(genl2),1)
 for i in range(m-1):
     for j in range(i+1, m):
         [r,c] = np.where(M2 == M1[i,j])
         for k in range(len(r)):
             VT[(i)*n + r[k]] = 1;
             VT[(i)*n + c[k]] = 1;
             VT[(j)*n + r[k]] = 1;
             VT[(j)*n + c[k]] = 1;
```

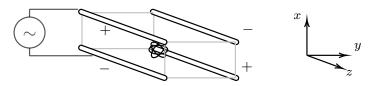


return M

Listing 1: Example code snippet [1]. minted package is required to compile it.

B. USE LATEX BEAUTIFUL FEATURES

Unlike Word, you can do very fancy stuff with IATEX. Please enjoy a vector sketch of a Paul trap...



... or this stunning Lindbladian equation

$$\dot{\rho} = \frac{i}{\hbar} [\rho, H] + \sum_{j} \gamma_{j} \left(L_{j} \rho L_{j}^{\dagger} - \frac{1}{2} \left\{ L_{j}^{\dagger} L_{j}, \rho \right\} \right) \tag{1}$$

REFERENCES

- [1] Dummy author. Some title. URL: https://www.overleaf.com/learn/latex/Code_Highlighting_with_minted (visited on 09/30/2010).
- [2] Yourself. "Your face". In: Journal 1 (2023). DOI: 10.X/.

More information on bibliography is available for instance at https://www.overleaf.com/learn/latex/Bibliography_management_with_biblatex.