

# Quantum Tunelling Lab

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# 1 Introduction

# 2 Theory

$$J_{exp} = ch + \sqrt{y^2 + \sin^2(y)} \tag{1}$$

$$z = J_{exp}^2 \tag{2}$$

# 3 Method

# 4 Results

$x$	$y$
1	2.02
2	3.05

Table 1:  $y$  against  $x$

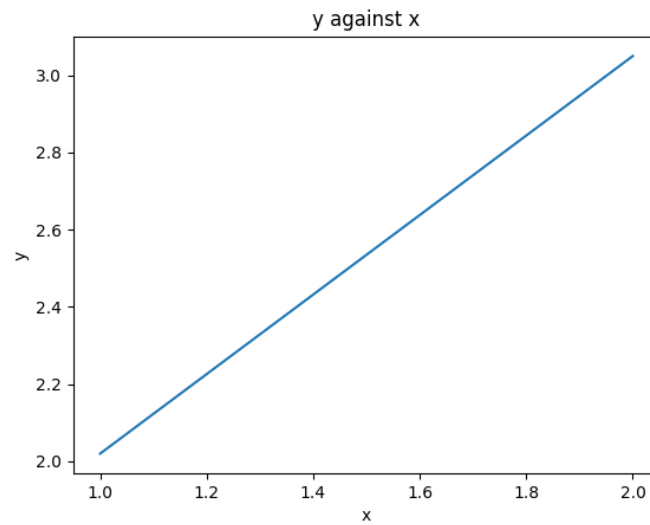


Figure 1:  $y$  against  $x$

$x$	$y_1$
1	3
2	4.

Table 2:  $y_1$  against  $x$

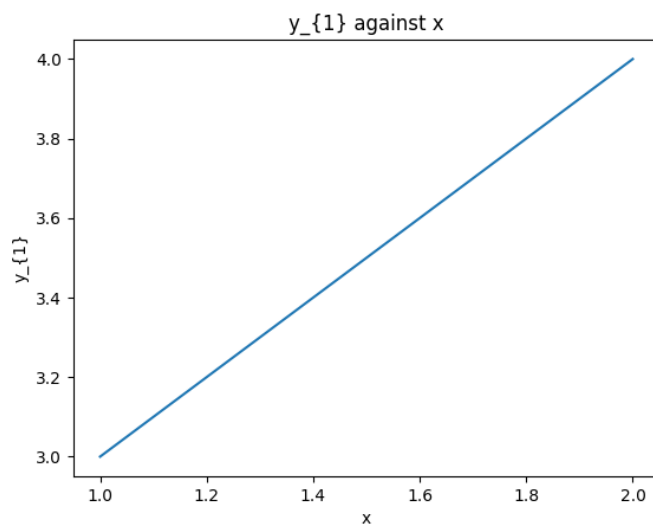


Figure 2:  $y_1$  against  $x$

## 5 Analysis

$y$	$J_{exp}$
2.02	368.831
3.05	369.058

Table 3:  $J_{exp}$  against  $y$

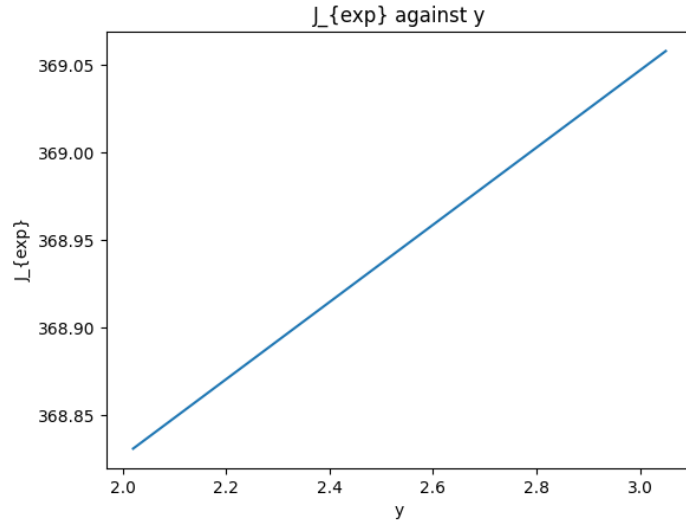


Figure 3:  $J_{exp}$  against  $y$

$J_{exp}$	$z$
2.02	4.08
3.05	9.302

Table 4:  $z$  against  $J_{exp}$

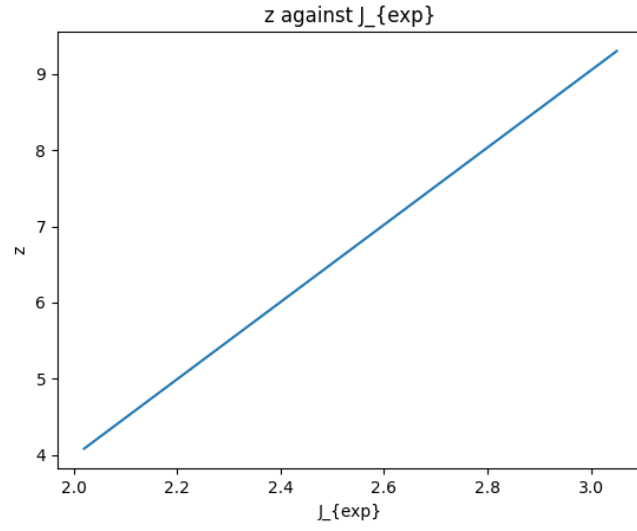


Figure 4:  $z$  against  $J_{exp}$

## 6 Conclusion