FYSC23

Semiconductor lab

 $\begin{array}{c} Author \\ \text{Fredrik Bergelv} \\ \text{fredrik.bergelv@live.se} \end{array}$



Abstract

Contents

1	Introduction	1
2	Experiment	1
	2.1 Part 1	1
3	Result	2
	3.1 Part 1	2
4	Discussion	2
5	Conclusion	2

Fredrik Bergelv 2 EXPERIMENT

1 Introduction

2 Experiment

2.1 Part 1

Wavelength white LED: $454.17~\mathrm{nm}$

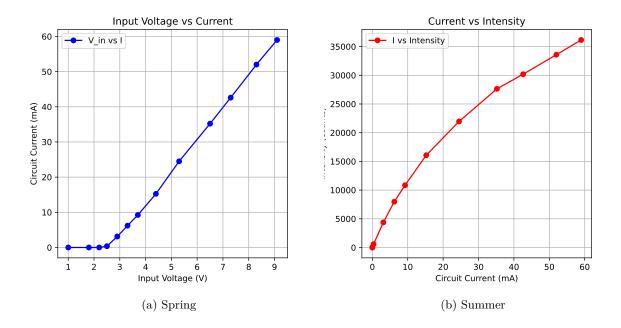
Mesurment	V _{in} (V)	V _{across} (V)	I _{circuit} (mA)	Intensity (counts)
1	1	1.14	0.0	5.00
2	1.8	1.96	0.0	8.00
3	2.2	2.41	0.00	4.70
4	2.5	2.56	0.36	590.30
5	2.9	2.66	3.11	4377.70
6	3.3	2.72	6.21	7979.50
7	3.7	2.76	9.24	10846.90
8	4.4	2.84	15.24	16080.10
9	5.3	2.93	24.5	21958.10
10	6.5	3.02	35.2	27642.20
11	7.3	3.08	42.6	30184.80
12	8.3	3.15	52.0	33590.00
13	9.1	3.20	59.0	36153.70

Table 1: tab:part1

Fredrik Bergelv 5 CONCLUSION

3 Result

3.1 Part 1



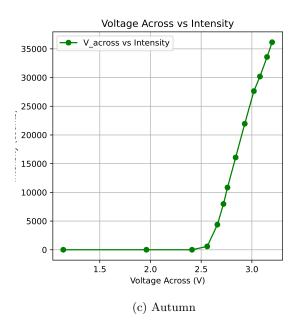


Figure 1: Histograms for different seasons.

4 Discussion

5 Conclusion