| - 2 s | 1 cmake_minimum_required(VERSION 3.17) 2 project(optics_experiment C) 3 |
|-------|---|
| 4 | 4 set(CMAKE_C_STANDARD 99) |
| 2 | |
| 9 | add_executable(optics_experiment main.c generate_table.c generate_table.h main.h |
| / | readcsv.c readcsv.h generate_document.c generate_document.h) |

```
sprintf(cmd, "%s %s", "cp -f", "./tex-templates/new_document_head.tex", filename);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              void xelatex_compile(char *tex_filename, char *pdf_filename) {
                                                                                                                                                                                                                                                                                                                                                              "../tex-templates/new_document_tail.tex",
                                                                                                                                                          char *cmd = malloc(sizeof(char) * 256);
                                                                                                                                                                                                                                                                                                             char *cmd = malloc(sizeof(char) * 256);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          char *cmd = malloc(sizeof(char) * 256);
                                                                                                                              void generate_header(char *filename) {
                                                                                                                                                                                                                                                                                    void generate_footer(char *filename) {
                                              #include "main.h"
#include "generate_document.h"
// Created by hxp on 2020-11-10.
                                                                                                                                                                                                                                                                                                                                     sprintf(cmd, "cat %s >> %s",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sprintf(cmd, "cp *.pdf %s",
pdf_filename);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sprintf(cmd, "xelatex %s",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tex filename);
                                                                                                                                                                                                                                                                                                                                                                                           filename);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     system(cmd);
                                                                                                                                                                                                                                                                                                                                                                                                                      system(cmd);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                system(cmd);
                                                                                                                                                                                                             system(cmd);
                                                    4 2 9 7 8
```

```
12 void xelatex_compile(char *tex_filename, char* pdf_filename);
13
                                                                                                                                                                                                                                                                        14 #endif //OPTICS_EXPERIMENT_GENERATE_DOCUMENT_H
15

#ifndef OPTICS_EXPERIMENT_GENERATE_DOCUMENT_H
#define OPTICS_EXPERIMENT_GENERATE_DOCUMENT_H
void generate_header(char *filename);

                                                                                                                                                                          10 void generate_footer(char *filename);
11
2 // Created by hxp on 2020-11-10.3 //
```

```
void fill_table_analyzer_angle_light_intensity(char *data_filename, char *tex_filename)
char *cmd = malloc(sizeof(char) * 256);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sprintf(cmd, "sed -i s/p%d/%.2f/ %s", i + 11, light_intensity[i], tex_filename);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                const double *light_intensity = read_lines(data_filename, 2, 37, 3);
                                                                                                                                                                                                                                                   void create_table_analyzer_angle_light_intensity(char *filename) {
                                                                                                                                                                                                                                                                                                                                                          "../tex-templates/analyzer_angle_light_intensity.tex",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sprintf(cmd, "sed -i s/p00/%.2f/ %s", current, tex_filename);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            double current = read_lines(data_filename, 2, 2, 2)[0];
                                                                                                                                                                                                                                                                                      char *cmd = malloc(sizeof(char) * 256);
// Created by hxp on 2020-11-09.
                                                                                                                                                                                                                                                                                                                       sprintf(cmd, "cat %s >> %s",
                                                                                                                                          #include "generate_table.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for (int i = 0; i < 36; i + +) {
                                                                                                                                                                      #include "readcsv.h"
                                                                                                       #include "main.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 system(cmd);
                                                                                                                                                                                                                                                                                                                                                                                            filename);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         system(cmd);
                                                                                                                                                                                                                                                                                                                                                                                                                                    system(cmd);
                                                                                                       9 7 8
```

```
29 void insert_plot(char* plot_script_path, char* plot_script_name, char* tex_filename) {
30    char *cmd = malloc(sizeof(char) * 256);
                                                                                                                                                                                                                                      system(cmd);
sprintf(cmd, "sed -i s/path.pdf/%s/ %s",
                                                                                                                                                                                  "../tex-templates/figure.tex",
                                               sprintf(cmd, "gnuplot -p %s/%s",
    plot_script_path,
    plot_script_name);
system(cmd);
                                                                                                                                                     sprintf(cmd, "cat %s >> %s",
                                                                                                                                                                                                                                                                                    plot_script_name,
tex_filename);
                                                                                                                                                                                                          tex_filename);
                                                                                                                                                                                                                                                                                                                                            system(cmd);
                                                                                                                                                                              36
```

```
    void fill_table_analyzer_angle_light_intensity(char *data_filename, char* tex_filename);
    void insert_plot(char* plot_script_path, char* plot_script_name, char* tex_filename);

                                                                                                                                                                                                                                                        8 void create_table_analyzer_angle_light_intensity(char *filename);
                                                                                                                                                                                                                                                                                                                                                                                                                                       12 #endif //OPTICS_EXPERIMENT_GENERATE_TABLE_H

#ifndef OPTICS_EXPERIMENT_GENERATE_TABLE_H
#define OPTICS_EXPERIMENT_GENERATE_TABLE_H

2 // Created by hxp on 2020-11-09.3 //
```

```
create_table_analyzer_angle_light_intensity(tex_filename);
fill_table_analyzer_angle_light_intensity(".../data/analyzer_angle_light_intensity_1.csv", tex_filename);
insert_plot(PLOT_SCRIPT_PATH, "analyzer-angle-light-intensity-1.gnuplot", tex_filename);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sprintf(tex_filename, "%s%s", WORKDIR, TEX_FILE_NAME); sprintf(pdf_filename, "%s%s", WORKDIR, PDF_FILE_NAME);
                                                                                                                                                                                                                const char *TEX_FILE_NAME = "optics-experiment.tex";
const char *PDF_FILE_NAME = "optics-experiment.pdf";
                                                                                                                                                                                                                                                                                                       const char *PLOT_SCRIPT_PATH = "../gnuplot_scripts/";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             char *pdf filename = malloc(sizeof(char) * 128);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    char *tex filename = malloc(sizeof(char) * 128);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          xelatex_compile(tex_filename, pdf_filename);
                                                                                                                                                                     const char *WORKDIR = "../output/";
                                        #include "generate_document.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 generate_header(tex_filename);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                generate footer(tex filename);
                                                                               #include "generate_table.h"
#include "main.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                             int main() {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return 0;
                                                                                                                                                                       2
                                                                                                                                                                                                            9
```

File - /home/hxp/CLionProjects/optics-experiment/main.h

```
double *read_lines(char* filename, int line_start, int line_end, int column) {
    FILE *data = fopen(filename, "r");
                              // Read a csv file and extract data from given lines and a given column.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         double *result = malloc(sizeof(double) * (line_end - line_start + 1));
                                                                                                                                                                                                        for (tok = strtok(line, ","); tok && *tok; tok = strtok(NULL, ",\n")) {
                                                                                                                                                const char *get_field(char *line, int num) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (current_line < line_start - 1) {</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (current_line > line_end - 1) {
// Created by hxp on 2020-11-07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                while (fgets(line, 1024, data)) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              current line++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int current_line = 0;
                                                                                      #include "readcsv.h"
                                                                                                                                                                              const char *tok;
                                                                                                                                                                                                                                                                    return tok;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              char line[1024];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            continue;
                                                                                                                                                                                                                                         if (!--num)
                                                                                                                                                                                                                                                                                                                            return NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    break;
                                                                                   8 7 8
```

| 29 cl 30 re 31 cl 32 } 33 fclo 34 retu 35 } | | <pre>char *tmp = strdup(line); result[current line + 1 - line start] = strtod(get field(tmp, column), NULL);</pre> | urrent_line++; | | fclose(data); | ırn result; | | | | | | | | | | | |
|---|---|--|----------------|---|---------------|-------------|----|--|--|--|--|--|--|--|--|--|--|
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| | | <u>~</u> ~ | Υ | m | Ϋ́ | Ϋ́ | Ϋ́ | | | | | | | | | | |

| \begin {table}[H] | \centering \ | \begin {tabular}{ c c c c c c c c c c c c c c c c c c c | \hline | 检偏镜角度(\${}^{ \circ }\$) & 0 & 10 & 20 & 30 & 40 & 50 & 60 & 70 & 80 \\\hline | 光强(\$10^{-7} \si {A}\$) & p11 & p12 & p13 & p14 & p15 & p16 & p17 & p18 & p19 \\\\hline | 检偏镜角度(\${}^{ \circ }\$) & 90 & 100 & 110 & 120 & 130 & 140 & 150 & 160 & 170 \\\hline | 光强(\$10^{-7} \si {A}\$) & p21 & p22 & p23 & p24 & p25 & p26 & p27 & p28 & p29 \\\hline | 检偏镜角度(\${}^{ \circ }\$) & 180 & 190 & 200 & 210 & 220 & 230 & 240 & 250 & 260 \\\hi line | 光强(\$10^{-7} \si {A}\$) & p31 & p32 & p33 & p34 & p35 & p36 & p37 & p38 & p39 \\\hline | 检偏镜角度(\${}^{ \circ }\$) & 270 & 280 & 290 & 300 & 310 & 320 & 330 & 340 & 350 \\\hline | 光强(\$10^{-7} \si {A}\$) & p41 & p42 & p43 & p44 & 45 & p46 & p47 & p48 & p49 \\\hline | \end {tabular} | \caption {检偏器角度与光强关系,特定励磁电流\$I=p00 \$ } | \end {table} | |
|--------------------------|--------------|--|--------|--|---|---|--|--|--|--|---|-----------------------|---|---------------------|----|
| _ | 7 | Υ | 4 | 2 | 9 | 7 | ∞ | 6 | 10 | | 12 | 13 | 14 | 15 | 16 |

File - /home/hxp/CLionProjects/optics-experiment/tex-templates/figure.tex

```
% 定义自然对数e,同样应当是直立体
                                                                                                                                                                                                                                                          |newcommand{\angstrom}{\text{\normalfont\AA}} % 定义了原子物理的A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \newcommand*{\md}{\mathop{}\!\mathrm{d}} % 定义微分算子,
                                                                                                                                                                                                                                                                                                                                                                         \geometry{a4paper,scale=0.8} % 定义页面大小是A4,缩放是0.8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               % 如果你想要每一段的开头不要空两格,注释掉下面这两行
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \newcommand*{\me}{\mathrm{e}}
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                                                                                                                                                                                                                                                                                                                                                                                                                          \usepackage{subcaption}
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                                                                    \documentclass{ctexart}
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\%! Author = hxp
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```
/|head{本文档TeX源码地址:https://github.com/hxp-plus/Notes/tree/master/Physics-Experiment/实验报告}
                                                                                                                                                                                                                                                                                       个空格的距离,而且应当直立体
                                                                                                                             % 表格默认格内内容和边框没有留出距离,显示分数的时候,分数的上下会贴到边框上
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \newcommand{\generatetitle}[6]{\title{\zihao{3}\heiti#1} \author{#2 \quad
                                                                            \renewcommand{\mathbf}[1]{\boldsymbol{\Oldmathbf{#1}}}
                                                                                                                                                                                                                                                                                     % \si命令是用来写单位的,单位需要和之前的数字有
                                                                                                                                                        % 因此我增加了表格内容和边框的最短距离是5像素
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \renewcommand{\headrulewidth}{1pt}
                                                                                                                                                                                                                                      \setlength{\cellspacebottomlimit}{5pt}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \renewcommand{\footrulewidth}{1pt}
                                                                                                                                                                                                                                                                                                                                         \newcommand{\si}[1]{\ \mathrm{#1}}
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% 默认的\mathbf对希腊字母不生效,
                                                  \let\Oldmathbf\mathbf
                                                                                                                                                                                   \usepackage{cellspace}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \usepackage{fancyhdr}
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                                                                                                                                                                                                                                                                                                              % 用法: 5 \si{km/h}
                           \usepackage{bm}
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```
综合光学实验}{物理4+4}{胡喜平}{U201811966}{hxp201406@gmail.com}{https://hxp.plus/}
                                                                                                                                                                                                                        format = \raggedright\zihao{5}\\heiti, % 所有paragraph的字号为五号黑体左对齐
                                                                                     \renewcommand{\subsubsection}[1]{\oldsubsubsection{\!\\\\\\\\ [4] }}
                                           \renewcommand{\subsection}[1]{\oldsubsection{\!\!\!\!\!\!\!\\ [#1] }}
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \renewcommand\@biblabel[1]{}
%% 把subsection之间加上中括号
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| \paragraph{摘要} | \paragraph{关键词} | \section{引言} | \subsection{实验目的} | \section{实验内容与数据处理} | \subsection{实验原理} | \subsection{实验内容} | \subsection{实验结果的分析和结论} | |
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File - /home/hxp/CLionProjects/optics-experiment/tex-templates/new_document_tail.tex

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| | 7 | Υ | 4 | 2 | 9 | 7 | ∞ | <u>ი</u> | 10 | | 12 | 13 | 14 | 15 | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 56 | 27 | 28 | I |

| File - Inomelinxpi/CLionProjects/optics-experiment/data/analyzer_angle_light_intensity_1.csv 29 135,270,79 30 135,280,82 31 135,290,44 32 135,300,36 33 135,310,80 34 135,320,83 35 135,340,37 37 135,350,81 38 | | | | | | | | | |
|---|--|----------|---------|---------|---------|----------|----------|---------|--|
| | tp/CLionProjects/optics-experiment/data/analyzer_angle_light_intensity_1.csv ,270,79 ,280,82 | ;,290,44 | ,300,36 | ;310,80 | ,320,83 | ,,330,45 | ,,340,37 | ,350,81 | |

| 1 set datatile separator ', | 2 set term eps | 3 set output "/output/analyzer-angle-light-intensity-1.gnuplot.eps" | 4 plot '/data/analyzer_angle_light_intensity_1.csv' using 2:3 with line notitle | 5 | 9 |
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/