UESTCBEAMER: 电子科技大学风格 Beamer 主题

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摘要

UESTCBEAMER 主题是一款具有电子科技大学风格的、使用 LATEX 制作的演示文稿。目前仅为个人在进行学术交流等需要演示文稿活动时使用,制作风格参考本校本科课程《应用随机过程》、《图论》。本项目 fork 自开源项目 ThuBeamer,本项目遵循的协议和规定均与其保持一致。

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- 1. 本模板的发布遵守 LATEX Project Public License 1.3c 以及其后的最新版本,使用前请认真阅读协议内容。
- 2. 本主题为作者个人制作,使用仅供参考,任何由于使用本主题而引起的任何问题均与本主题作者无关。
- 3. 任何个人或组织以本模板为基础进行修改、扩展而生成的新的专用模板,请严格遵守 LATEX Project Public License 1.3c 协议以及其后的最新版本。由于违犯协议而引起的任何纠纷争端均与本模板作者无关。

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1 模板介绍

UESTCBEAMER 是方便个人进行学术交流和演示而编写的 LATEX Beamer 模板。

本文档介绍的使用方法基本和THUBEAMER一致。尽管如此,本文档尽量完整地介绍模板的使用方法。如有不清楚之处可以参考示例文档或者根据第 3.1 节说明提问,有兴趣者可以联系作者参与完善此手册。

2 安装

目前 UESTCBEAMER 仅有个人自用的开发版,相关链接:

• 主页: GitHub

2.1 模板的组成

下表列出了 UESTCBEAMER 的主要文件及其功能介绍:

文件(夹)	功能描述
uestcbeamer.dtx	主题宏包、说明文档以及主题驱动文件的混排文件
main.tex	主题测试文档
figures/	主题相关矢量图存储文件夹
makedoc.bat	生成主题与用户手册脚本
makebeamer.bat	编译测试样例脚本
makeclean.bat	清理编译过程中间文件脚本
makecleanall.bat	清理编译过程中间文件与样式文件脚本
Makefile	Linux & Mac OS 脚本
uestcbeamer.pdf	用户手册 (本文档)

注:使用前,请仔细阅读 uestcbeamer.pdf,即本文档。

3 使用说明

本手册假定用户已经能处理一般的 LeTeX 文档,并对 BibTeX 有一定了解。如果从来没有接触过 TeX 和 LeTeX,建议先学习相关的基础知识。

3.1 关于提问

按照优先级推荐提问的位置如下:

- Github Issues: https://github.com/Kytolly/UESTC-beamer/issues
- Email: kytolly.xqy@gmail.com

3.2 示例文件

模板核心文件有四个 *.sty, 但是如果没有示例文档用户会发现很难下手。所以推荐新用户从模板自带的示例文档入手, 里面包括了 Beamer 写作用到的所有命令及其使用方法, 只需要用自己

的内容进行相应替换就可以。对于不清楚的命令可以查阅本手册。下面的例子描述了模板中章节的组织形式,来自于示例文档,具体内容可以参考模板附带的 main.tex。

```
///-----
% !Mode:: "TeX:UTF-8"
% !TEX program = PdfLaTeX
%%-----
% 模板名称: westcbeamer
% 模板版本: V1.0
%模板作者: Kytolly
% 联系作者: kytolly.xqy@gmail.com
% 模板适用: 电子科技大学风格 Beamer 模板
%模板编译: 手动编译方法参看 README.md 或 uestcbeamer.pdf
       编译 beamer 之前必须编译说明文档: make doc 或双击 makedoc.bat
       编译说明文档同时分离出四个样式文件 *uestcbeamer.sty
       GNU make 工具: make beamer
       Windows 批处理脚本: 双击 makebeamer.bat 自动编译 beamer
       更多编译细节详见说明文档: uestcbeamer.pdf
% 更新时间: 2025/03/06
%模板帮助:请**务必务必务必**阅读 uestcbeamer.pdf 说明文档,
       推荐前往模板的 GitHub 仓库获取最新文件, 地址:
       s: https://github.com/Kytolly/UESTC-beamer
%设置文档类别为 <beamer>
% \documentclass[aspectratio=169]{beamer} % 设置长宽比为 16:9
\documentclass{beamer}
% 使用 <uestcbeamer> 主题
%模板选项如下
% (a.1) smoothbars: 页面顶端单行显示目录, 默认选项
\usetheme{thubeamer}
% (a.2) sidebar: 页面左侧分栏显示目录
% \usetheme[sidebar]{thubeamer}
% (b) sectiontoc: 在每节 (section) 前显示目录,并高亮显示当前节,默认不显示
% (c) subsectiontoc: 在每小节 (subsection) 前显示目录,并高亮显示当前节和当前小节,默认不显示
% (d) en: 仅使用英文来制作 beamer, 应用此选项后, 汉字将全部无法编译
% 图片存放路径
\graphicspath{{figures/}}
\include{macros}
% 封面信息,方括号内容是显示在左侧边栏的内容(当选择 sidebar 主题时有效)
\title[关于使用电子科技大学Beamer模板的使用研究报告]{Beamer模板\\[2mm] 课程答辩}
\author[Kytolly]{学生: 谢卿云\\[5mm] 导师: 孙明 教授}
```

```
\institute[电子科技大学]{\small 电子科技大学}
\date{\small \vskip -10pt \today}
% 开始写文章
\begin{document}
%标题页
\begin{frame}
       \mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\
\end{frame}
% 目录页
\section*{目录}
\frame{
       \frametitle{\secname}
       \tableofcontents[hideallsubsections]
\section{研究内容及进度}
\subsection{课题主要研究内容}
\begin{frame}{课题主要研究内容}
      \begin{figure}
              \includegraphics[width=0.4\linewidth] {uestclogo}
              \caption{课题主要研究内容}
       \end{figure}
\end{frame}
\subsection{进度介绍}
\begin{frame}{进度介绍}
       \begin{figure}
             \includegraphics[width=0.4\linewidth] {uestclogo}
              \caption{进度介绍}
       \end{figure}
 \end{frame}
\section{研究工作及成果}
\begin{frame}{已完成的研究工作及成果}
       \begin{block}{已完成的研究工作简介}
              \begin{itemize}
                     \setlength{\itemsep}{6pt}
                     \item XXXX
                     \item XXXX
                     \item XXXX
                     \forallitem XXXX
                     \item XXXX
                     \item XXXX
```

```
\end{itemize}
 \end{block}
\end{frame}
\subsection{研究工作一}
\begin{frame}{研究工作一}
 \begin{block}{无编号公式}
   无编号公式示例:
     k:[-\pi,\pi] \rightarrow [0,1]
 \ensuremath{\mbox{end}} \{ \ensuremath{\mbox{block}} \}
\end{frame}
\subsection{研究工作二}
\begin{frame}{研究工作二}
 \begin{block}{有编号公式}
   \begin{itemize}
      \item 有编号公式示例: 输入为图像
     \begin{equation}
       \label{lem:condition} $$ \xin\end{C_{\star in}} \times W$
      其中 $C_{\text{in}}$ 表示通道, $H$ 表示图像高度, $W$ 表示图像深度.
   \end{itemize}
  \end{block}
\end{frame}
\subsection{研究工作三}
\begin{frame}{研究工作三}
 \begin{block}{表格}
   表格示例,如表 \ref{tab:unique_values} 所示.
   \begin{table}[htbp]
      \mbox{\sc small}
     \centering
      \caption{train.csv 每列非重复元素个数}
     \label{tab:unique_values}
     \begin{tabular}{lc}
       \toprule
       column & \# unique values \\
       \midrule
       posting\_id & 34250 \\
       image & 32412 \\
       image\_phash & 28735 \\
       title & 33117 \\
       label\_group & 11014 \\
        \bottomrule
```

```
\end{tabular}
    \ensuremath{\mbox{end}}\{\ensuremath{\mbox{table}}\}
  \end{block}
\end{frame}
\subsection{研究工作四}
\begin{frame}{研究工作四}
  \begin{block}{并排图片}
    并排图片示例.
  \end{block}
  \begin{figure}[htbp]
    \centering
    \begin{minipage}[t]{0.48\textwidth}
      \centering
      \includegraphics[width=3cm]{uestclogo}
      \caption{并排图片1}
      \label{fig:left_side}
    \end{minipage}
    \begin{minipage}[t]{0.48\textwidth}
      \centering
      \includegraphics[width=3cm]{uestclogo}
      \caption{并排图片2}
      \label{fig:right_side}
    \end{minipage}
  \end{figure}
\ensuremath{\mbox{\ensuremath{\sf end}}} \{\ensuremath{\mbox{\ensuremath{\sf frame}}}\}
\section{后期工作与安排}
\subsection{后期研究工作}
\begin{frame}{后期研究工作}
  \begin{block}{后期研究工作}
    \begin{itemize}
      \setlength{\itemsep}{6pt}
      \forallitem XXXX
      \item XXXX
      \item XXXX
      \forallitem XXXX
    \end{itemize}
  \end{block}
\end{frame}
\subsection{进度安排}
\begin{frame}{进度安排}
  \begin{block}{进度安排}
    \begin{itemize}
      \setlength{\itemsep}{6pt}
```

```
\item XXXX\cite{liu2016}
     \item XXXX\cite{ren2010}
     \item XXXX\cite{Chen1992}
     \item XXXX\cite{Gravagne2003}
   \end{itemize}
  \end{block}
\end{frame}
\section{问题与解决方案}
\begin{frame}{问题与解决方案}
 \begin{block}{问题}
   \begin{itemize}
     \item XXXX
   \end{itemize}
 \end{block}
 \begin{block}{对应解决方案}
   \begin{itemize}
     \item XXXX
   \end{itemize}
 \end{block}
\end{frame}
\section{按时完成可能性}
\begin{frame}{按时完成可能性}
 \begin{block}{按时完成可能性}
   \begin{itemize}
     \setlength{\itemsep}{6pt}
     \item XXXX\cite{xin1994}
     \item XXXX\cite{zhai2015}
     \item XXXX\cite{jones2004}
     \item XXXX\cite{mcmahan2005}
   \end{itemize}
  \end{block}
\end{frame}
\begin{frame}[allowframebreaks]{参考文献}
  \bibliographystyle{thubeamer}
 \bibliography{reference}
\end{frame}
\begin{frame}
 \begin{center}
   {\Huge\calligra Thanks for your attention!}
   \vspace{1cm}
   {\Huge Q \& A}
  \end{center}
\end{frame}
```

3.3 论文选项 4 使用模板

% 结束文档撰写

\end{document}

3.3 论文选项

论文选项在 main.tex 文件的开头描述,此处不赘述。

4 使用模板

4.1 如何编译

4.1.1 Windows 用户

主题项目里已经列出了脚本:首先双击 makedoc.bat 脚本,生成主题和用户手册;然后双击 makebeamer.bat 脚本生成测试 Beamer 文件预览;最后双击 makeclean.bat 清理编译过程的中间文件;双击 makecleanall.bat可以清除辅助文件以及样式文件。

4.1.2 Linux & Mac OS 用户

首先运行下面命令生成主题和用户手册;

\$ make doc

然后运行下面命令生成测试 Beamer 文件预览;

\$ make beamer

最后运行下面命令清理编译过程的中间文件。

\$ make clean

若运行下面命令则清理编译过程的中间文件以及所有样式文件。

\$ make cleanall

5 实现细节

42 }

43 \DeclareOptionBeamer{sectiontoc}{

5.1 主题主文件部分

```
导入必要宏包
1 (*thubeamer)
2 \def\uestcbeamer{\textsc{thu}\-\textsc{Beamer}}
3 \RequirePackage{tikz}
4\usetikzlibrary{external}
5 \RequirePackage{pgf}
6 \RequirePackage{multicol}
7 \RequirePackage{multimedia}
8 \RequirePackage{calc}
9 \RequirePackage{amsmath}
10 \RequirePackage{amsthm}
11 \RequirePackage{amssymb}
12 \RequirePackage{bm}
13 \RequirePackage{graphicx}
14 \RequirePackage{tabularx}
15 \RequirePackage{booktabs}
16 \RequirePackage{multirow}
17 \RequirePackage{enumerate}
18 \RequirePackage{hyperref}
19 \RequirePackage{algorithm}
20 \RequirePackage{algorithmic}
21 \RequirePackage[T1]{fontenc}
22 \RequirePackage{latexsym,xcolor,multicol,calligra}
23 \RequirePackage{pstricks,listings,stackengine}
{\tt 24 \ RequirePackage[sort\&compress,numbers]\{natbib\}}
    主题选项
25 \DeclareOptionBeamer{thupurple}{
    \PassOptionsToPackage{thupurple}{beamercolorthemethubeamer}
    \PassOptionsToPackage{thupurple}{beamerinnerthemethubeamer}
    \verb|\PassOptionsToPackage{thupurple}| \{beamerouter the methubeamer\}|
28
29 }
30 \DeclareOptionBeamer{thupurple2}{
    \PassOptionsToPackage{thupurple2}{beamercolorthemethubeamer}
    \PassOptionsToPackage{thupurple2}{beamerinnerthemethubeamer}
    \PassOptionsToPackage{thupurple2}{beamerouterthemethubeamer}
33
34 }
35 \DeclareOptionBeamer{smoothbars}{
    \PassOptionsToPackage{smoothbars}{beamercolorthemethubeamer}
    \PassOptionsToPackage{smoothbars}{beamerouterthemethubeamer}
37
38 }
39 \DeclareOptionBeamer{sidebar}{
    \PassOptionsToPackage{sidebar}{beamercolorthemethubeamer}
    \PassOptionsToPackage{sidebar}{beamerouterthemethubeamer}
41
```

5.2 主题配色文件部分 5 实现细节

```
\PassOptionsToPackage{sectiontoc}{beamerinnerthemethubeamer}
45 }
46 \DeclareOptionBeamer{subsectiontoc}{
    \PassOptionsToPackage{subsectiontoc}{beamerinnerthemethubeamer}
48 }
49 \DeclareOptionBeamer{en}{
    \PassOptionsToPackage{en}{beamerinnerthemethubeamer}
51 }
52 \ProcessOptionsBeamer
    特殊设置
53 \modepresentation>
    \useinnertheme{thubeamer}
    \useoutertheme{thubeamer}
    \usecolortheme{thubeamer}
58 }
60 \mode<all>
61 (/thubeamer)
      主题配色文件部分
5.2
     参数设置
62 (*thucolorstyle)
{\tt 63 \backslash DeclareOptionBeamer\{thupurple\}\{\backslash def\backslash beamer@thucolor\{thupurple\}\}\}}
{\tt 64 \backslash DeclareOptionBeamer\{thupurple2\}\{\backslash def\backslash beamer@thucolor\{thupurple2\}\}\}}
{\tt 65 \backslash DeclareOptionBeamer\{smoothbars\}\{\backslash def\backslash beamer@thubar\{smoothbars\}\}\}}
{\tt 66 \backslash DeclareOptionBeamer\{sidebar\} \{\backslash def \backslash beamer@thubar\{sidebar\}\}}
67 \ProcessOptionsBeamer
69 \def\beamer@thucolorpurple{thupurple}
70 \def\beamer@thusidebar{sidebar}
     颜色设置。
71 \modeentation>
73% \ifx\beamer@thucolor\beamer@thucolorpurple
       \definecolor{beamer@textcolor}{RGB}{119,33,151}
74 %
75 %
       \definecolor{beamer@headercolor}{RGB}{129,48,140} % purple
76 %
       \ifx\beamer@thubar\beamer@thusidebar
         \definecolor{beamer@sidebarcolor}{RGB}{129,48,140}
77 %
78 %
       \else
         \definecolor{beamer@sidebarcolor}{RGB}{129,48,140}
79 %
80 %
       \fi
81 % \else
       \definecolor{beamer@textcolor}{RGB}{119,33,151}
82 %
       \definecolor{beamer@headercolor}{RGB}{129,48,140}
83 %
84 %
       \ifx\beamer@thubar\beamer@thusidebar
         \definecolor{beamer@sidebarcolor}{RGB}{129,48,140}
85 %
```

5.2 主题配色文件部分 5 实现细节

```
\else
86 %
87 %
        \definecolor{beamer@sidebarcolor}{RGB}{129,48,140}
89 % \fi
91% 控制 ppt 顶部和底部脚注颜色
92\ifx\beamer@uestccolor\beamer@uestccolorblue
    \definecolor{beamer@textcolor}{RGB}{25, 25, 89}
    \definecolor{beamer@headercolor}{RGB}{51, 51, 178} % purple
    \ifx\beamer@uestcbar\beamer@uestcsidebar
      \definecolor{beamer@sidebarcolor}{RGB}{51, 51, 178}
    \else
      \definecolor{beamer@sidebarcolor}{RGB}{51, 51, 178}
    \fi
100\else
    \definecolor{beamer@textcolor}{RGB}{25, 25, 89}
    \definecolor{beamer@headercolor}{RGB}{51, 51, 178}
    \ifx\beamer@thubar\beamer@uestcsidebar
      \definecolor{beamer@sidebarcolor}{RGB}{51, 51, 178}
    \else
105
      \definecolor{beamer@sidebarcolor}{RGB}{51, 51, 178}
106
    \fi
107
108\fi
110 % \setbeamercolor{footline}{bg=beamer@headercolor}
111 \setbeamercolor{title}{fg=white,bg=beamer@headercolor}
112 \ifx\beamer@thubar\beamer@thusidebar
    \setbeamercolor{frametitle}{fg=beamer@headercolor,bg=beamer@headercolor!10}
    \setbeamercolor{frametitle}{fg=white,bg=beamer@headercolor}
117 \setbeamerfont{frametitle}{size=\large}
119\setbeamercolor{secondbottomline}{fg=white,bg=beamer@headercolor!50!black}
120\setbeamercolor{firstbottomline}{fg=white,bg=beamer@headercolor}
122\setbeamercolor{palette primary}{use=structure,fg=white,bg=structure.fg}
123\setbeamercolor{palette secondary}{use=structure,fg=white,bg=structure.fg!75!black}
124\setbeamercolor{palette tertiary}{use=structure,fg=white,bg=structure.fg!50!black}
125\setbeamercolor{palette quaternary}{fg=white,bg=structure.fg!50!black}
127\setbeamercolor{block title}{fg=white,bg=beamer@headercolor}
128\setbeamercolor{block body}{bg=beamer@headercolor!10}
129\setbeamercolor{block title example}{%
    use={normal text,example text},fg=white,bg=example text.fg!75!green
130
132 \setbeamercolor{fine separation line}{}
133 \setbeamercolor{item projected}{fg=white}
135\setbeamercolor{palette sidebar primary}{use=normal text,fg=normal text.fg}
```

5.3 内部主题文件部分 5 实现细节

```
136\setbeamercolor{palette sidebar secondary}{use=structure,fg=structure.fg}
137\setbeamercolor{palette sidebar tertiary}{use=normal text,fg=normal text.fg}
138\setbeamercolor{palette sidebar quaternary}{use=structure,fg=structure.fg}
139
140\setbeamercolor{section in sidebar}{fg=beamer@textcolor}
141\setbeamercolor{section in sidebar shaded}{fg=gray}
142\setbeamercolor{separation line}{}
143 \ifx\beamer@thubar\beamer@thusidebar
    \setbeamercolor{sidebar}{bg=beamer@sidebarcolor!10}
145\else
    \setbeamercolor{sidebar}{bg=beamer@sidebarcolor}
147\fi
148 \setbeamercolor{sidebar}{parent=palette primary}
149 \setbeamercolor{structure}{fg=beamer@headercolor}
150\setbeamercolor{subsection in sidebar}{fg=beamer@textcolor}
151\setbeamercolor{subsection in sidebar shaded}{fg=gray}
152\setbeamercolor{logo}{bg=beamer@headercolor!20}
154 \mode<all>
155 (/thucolorstyle)
     内部主题文件部分
5.3
    必要宏包
156 (*thuinnerstyle)
157 \RequirePackage{tikz}
158 \usetikzlibrary{external}
    参数设置
159 \DeclareOptionBeamer{en}{\def\beamer@thulang{english}}
160 \DeclareOptionBeamer{sectiontoc}{\def\beamer@thusectoc{sectiontoc}}
161 \DeclareOptionBeamer{subsectiontoc}{\def\beamer@thusubsectoc{subsectiontoc}}
162 \ProcessOptionsBeamer
163
164 \def\beamer@thulanguage{english}
165 \def\beamer@thusectiontoc{sectiontoc}
166 \def\beamer@thusubsectiontoc{subsectiontoc}
    特殊设置
167 \modepresentation>
168
169 \ifx\beamer@thulang\beamer@thulanguage
    \relax
170
171 \else
    \RequirePackage{ctex}
172
173 \fi
174
175 \useinnertheme{circles}
176% \usefonttheme{structurebold}
177 \setbeamertemplate{caption} [numbered] {}
```

5.4 外部主题文件部分 5 实现细节

```
178 \useinnertheme[shadow] {rounded}
179
180 \newcommand\varparallel{%
     \mathrel{%
       \text{%
         \tikz[baseline] \draw (0em,-0.3ex) -- (.4em,1.7ex) (.2em,-0.3ex) -- (.6em,1.7ex);
183
       }%
    }%
185
186 }
187
188 \ifx\beamer@thusectoc\beamer@thusectiontoc
    \AtBeginSection[]{
       \begin{frame}
         \begin{multicols}{2}
191
           \tableofcontents[sectionstyle=show/shaded,subsectionstyle=show/shaded/hide,subsubsectionstyle=show
193
         \end{multicols}
       \end{frame}
195
    }
196\fi
197
198 \ifx\beamer@thusubsectoc\beamer@thusubsectiontoc
    \AtBeginSubsection[]{
       \begin{frame}
200
         \begin{multicols}{2}
201
202
           \tableofcontents[sectionstyle=show/shaded,subsectionstyle=show/shaded/hide,subsubsectionstyle=show
         \end{multicols}
203
       \end{frame}
    }
205
206\fi
207
208 \mode < all >
209 (/thuinnerstyle)
      外部主题文件部分
5.4
210 (*thuouterstyle)
     参数设置
211 \DeclareOptionBeamer{smoothbars}{\def\beamer@thubar{smoothbars}}
212 \DeclareOptionBeamer{sidebar}{\def\beamer@thubar{sidebar}}
213 \ProcessOptionsBeamer
214 \def\beamer@thusidebar{sidebar}
215
216 \modepresentation>
217
218% 取消导航符号
219 \setbeamertemplate{navigation symbols}{}
220
221\ifx\beamer@thubar\beamer@thusidebar
```

\useoutertheme[width=0.17\linewidth]{sidebar}

5.4 外部主题文件部分 5 实现细节

```
\logo{\includegraphics[width=0.08\linewidth]{thulogo.pdf}}
224\else
    \useoutertheme[footline=authorinstitutetitle,subsection=false]{smoothbars}
225
226\fi
228% set footline
229 \makeatletter
230 \newcommand{\frameofframes}{/}
231 \newcommand{\setframeofframes}[1]{
    \renewcommand{\frameofframes}{#1}
233 }
234\setbeamertemplate{footline}{%
235
    \begin{beamercolorbox}[colsep=1.5pt]{upper separation line foot}
    \end{beamercolorbox}
236
    \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
      leftskip=.3cm,rightskip=.3cm plus1fil]{firstbottomline}%
238
      \leavevmode{\usebeamerfont{author in head/foot}\insertshortauthor}%
      \hfill%
240
      {\usebeamerfont{institute in head/foot}%
      \usebeamercolor[fg]{frame number}%
242
        \insertshortinstitute
243
      }%
244
    \end{beamercolorbox}%
245
    \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
246
      leftskip=.3cm,rightskip=.3cm plus1fil]{secondbottomline}%
247
      {\usebeamerfont{title in head/foot}\insertshorttitle}%
248
249
      {\usebeamerfont{frame number}\usebeamercolor[fg]{frame number}\insertframenumber~\frameofframes~\insertframenumber.
250
    \end{beamercolorbox}%
251
    \begin{beamercolorbox}[colsep=1.5pt]{lower separation line foot}
252
    \end{beamercolorbox}
254 }
255 \makeatother
256
257 \mode < all >
258 (/thuouterstyle)
修改记录
v1.0.0
                                                    General: Initially design thubeamer .......... 1 v1.1.1
v1.1.0
                                                 General: add option 'en' for preparing beamer
                                                   引
索
           Symbols
                                                             \AtBeginSubsection ..... 199
. . . . . . . .
```

5.4 外部主题文件部分 5 实现细节

В	makedoc.bat 9	\PassOptionsToPackage
\beamer@thubar 65,66,76,	\frameofframes 230, 232, 250	26, 27, 28, 31, 32,
84, 103, 112, 143, 211, 212, 221	***	33, 36, 37, 40, 41, 44, 47, 50
$\verb \beamer@thucolor \dots 63, 64, 73 $	H \hfill 240, 249	\ProcessOptionsBeamer
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\beamer@thulanguage 164,169	\includegraphics 223	S
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$\verb \beamer@thusectoc 160, 188 $	\insertshortauthor 239	115, 119, 120, 122, 123,
\beamer@thusidebar	\insertshortinstitute 243	124, 125, 127, 128, 129,
70, 76, 84, 112, 143, 214, 221	\insertshorttitle 248	132, 133, 135, 136, 137,
$\verb \beamer@thusubsectiontoc .$	\inserttotalframenumber 250	138, 140, 141, 142, 144,
	_	146, 148, 149, 150, 151, 152
\beamer@thusubsectoc 161,198	L	\setbeamerfont 117
\beamer@uestcbar 95	\leavevmode 239	\setbeamertemplate 177, 219, 234
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	M main.tex(file) 4,9	\tableofcontents 192, 202
D		\text 182
D \DeclareOptionBeamer 25,30,	main.tex (file) 4,9	\textsc
D \DeclareOptionBeamer 25, 30, 35, 39, 43, 46, 49, 63, 64,	main.tex(file) 4,9 \makeatletter	\text 182
D \DeclareOptionBeamer 25,30, 35, 39, 43, 46, 49, 63, 64, 65, 66, 159, 160, 161, 211, 212	main.tex (file) 4,9 \makeatletter 229 \makeatother 255	\textsc
D \DeclareOptionBeamer 25, 30, 35, 39, 43, 46, 49, 63, 64, 65, 66, 159, 160, 161, 211, 212 \definecolor 74, 75,	main.tex (file) 4,9 \makeatletter 229 \makeatother 255 makebeamer.bat (file) 9	\text
D \DeclareOptionBeamer 25,30, 35, 39, 43, 46, 49, 63, 64, 65, 66, 159, 160, 161, 211, 212 \definecolor	main.tex (file) 4,9 \makeatletter 229 \makeatother 255 makebeamer.bat (file) 9 makeclean.bat (file) 9	\text 182 \textsc 2 \tikz 183 U \uestcbeamer 2
D \DeclareOptionBeamer 25,30, 35, 39, 43, 46, 49, 63, 64, 65, 66, 159, 160, 161, 211, 212 \definecolor 74,75, 77, 79, 82, 83, 85, 87, 93, 94, 96, 98, 101, 102, 104, 106	main.tex (file) 4,9 \makeatletter 229 \makeatother 255 makebeamer.bat (file) 9 makeclean.bat (file) 9 makecleanall.bat (file) 9	\text
D \DeclareOptionBeamer 25,30, 35, 39, 43, 46, 49, 63, 64, 65, 66, 159, 160, 161, 211, 212 \definecolor	main.tex (file) 4,9 \makeatletter 229 \makeatother 255 makebeamer.bat (file) 9 makeclean.bat (file) 9 makecleanall.bat (file) 9 makedoc.bat (file) 9	\text
D \DeclareOptionBeamer 25,30, 35, 39, 43, 46, 49, 63, 64, 65, 66, 159, 160, 161, 211, 212 \definecolor 74,75, 77, 79, 82, 83, 85, 87, 93, 94, 96, 98, 101, 102, 104, 106	main.tex (file) 4,9 \makeatletter 229 \makeatother 255 makebeamer.bat (file) 9 makeclean.bat (file) 9 makecleanall.bat (file) 9 makedoc.bat (file) 9 \mathrel 181	\text 182 \textsc 2 \tikz 183 U \uestcbeamer 2 \usebeamercolor 242, 250 \usebeamerfont 239, 241, 248, 250 \usecolortheme 57
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D \DeclareOptionBeamer 25, 30,	main.tex (file) 4, 9 \makeatletter 229 \makeatother 255 makebeamer.bat (file) 9 makeclean.bat (file) 9 makedoc.bat (file) 9 \mathrel 181 \mode 53, 60, 71, 154, 167, 208, 216, 257	\text
D \DeclareOptionBeamer 25, 30,	main.tex (file)	\text
D \DeclareOptionBeamer 25, 30,	main.tex (file) 4, 9 \makeatletter 229 \makeatother 255 makebeamer.bat (file) 9 makeclean.bat (file) 9 makedoc.bat (file) 9 \mathrel 181 \mode 53, 60, 71, 154, 167, 208, 216, 257 N newpxtext (package) 15	\text