

Monash Beamer Theme

Thesis Proposal Presentation

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- ① Background
- ② Related Work
- ③ Research Content
- ④ Project Timeline
- ⑤ References

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Why Beamer?

- \LaTeX is widely used in academia, and many universities have their own Beamer themes.

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- \LaTeX is widely used in academia, and many universities have their own Beamer themes.
- Please use $\text{Xe}\text{\LaTeX}$ compiler for best results.
- Original theme:
<https://github.com/Kha1edze/MONASH-Beamer-Theme>

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Beamer Theme Categories

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Beamer Theme Types

- Default \LaTeX themes
- University-customized themes
- This template was modified from the Tsinghua University Beamer theme.

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Theme Enhancements

Why Use Beamer

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Differences from THU Beamer Theme

- Color scheme adjustments
- University logo

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Why Beamer

- \LaTeX is widely adopted in scientific publishing.

Microsoft Word	\LaTeX
Word processor	Professional typesetting
Easy to learn	Requires basic syntax
WYSIWYG	What you mean is what you get
Formatting is time-consuming	Focus on content
Poor formula layout	Excellent for equations
Proprietary format	Plain text, stable, portable
License required	Free and open source

Equations Example

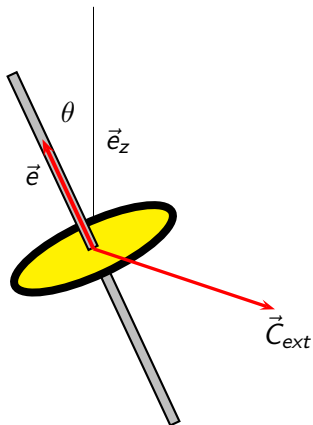
Unnumbered Equation

$$J(\theta) = \mathbb{E}_{\pi_{\theta}}[G_t] = \sum_{s \in \mathcal{S}} d^{\pi}(s) V^{\pi}(s) = \sum_{s \in \mathcal{S}} d^{\pi}(s) \sum_{a \in \mathcal{A}} \pi_{\theta}(a|s) Q^{\pi}(s, a)$$

Multiline Equation

$$\begin{aligned} Q_{\text{target}} &= r + \gamma Q^{\pi}(s', \pi_{\theta}(s') + \epsilon) \\ \epsilon &\sim \text{clip}(\mathcal{N}(0, \sigma), -c, c) \end{aligned} \tag{1}$$

Figures and Columns



1	2	3	A	697 Hz
4	5	6	B	770 Hz
7	8	9	C	852 Hz
*	0	#	D	941 Hz
1209 Hz	1366 Hz	1477 Hz	1633 Hz	

L^AT_EX Common Commands

Commands

<code>\chapter</code>	<code>\section</code>	<code>\subsection</code>	<code>\paragraph</code>
chapter	section	sub-section	paragraph
<code>\centering</code>	<code>\emph</code>	<code>\verb</code>	<code>\url</code>
center	emphasize	original	hyperlink
<code>\footnote</code>	<code>\item</code>	<code>\caption</code>	<code>\includegraphics</code>
footnote	list item	caption	insert image
<code>\label</code>	<code>\cite</code>	<code>\ref</code>	
label	citation	refer	

Environment

<code>table</code>	<code>figure</code>	<code>equation</code>
table	figure	formula
<code>itemize</code>	<code>enumerate</code>	<code>description</code>
non-numbering item	numbering item	description

L^AT_EX Examples of environmental commands

```
1 \begin{itemize}
2   \item A \item B
3   \item C
4   \begin{itemize}
5     \item C-1
6   \end{itemize}
7 \end{itemize}
```

- A
- B
- C
 - C-1

L^AT_EX Examples of environmental commands

```
1 \begin{itemize}
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5   \item C-1
6 \end{itemize}
7 \end{itemize}
```

- A
- B
- C
 - C-1

```
1 \begin{enumerate}
2   \item A \item B
3   \item C
4 \begin{itemize}
5   \item [n+e]
6 \end{itemize}
7 \end{enumerate}
```

- ① A
- ② B
- ③ C
 - n+e

L^AT_EX Formulas

```
1 $V = \frac{4}{3}\pi r^3$
2
3 \[
4   V = \frac{4}{3}\pi r^3
5 \]
6
7 \begin{equation}
8   \label{eq:vsphere}
9   V = \frac{4}{3}\pi r^3
10 \end{equation}
```

$$V = \frac{4}{3}\pi r^3$$

$$V = \frac{4}{3}\pi r^3$$

$$V = \frac{4}{3}\pi r^3 \quad (2)$$

- more information [here](#)

```
1 \begin{table}[htbp]
2   \caption{numbers & meaning}
3   \label{tab:number}
4   \centering
5   \begin{tabular}{cl}
6     \toprule
7     number & meaning \\\
8     \midrule
9     1 & 4.0 \\\
10    2 & 3.7 \\\
11    \bottomrule
12   \end{tabular}
13 \end{table}
```

Table 1: numbers & meaning

numbers	meaning
1	4.0
2	3.7

formula (2) at previous
slide and Table 1

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- January: Literature review
- February: Reproduce and evaluate Beamer themes
- March to April: Beautify Monash Beamer theme
- May: Thesis writing

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Thanks!