

Problem Chosen

B

2025  
MCM/ICM  
Summary Sheet

Team Control Number

8889888

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## **My Title**

### **Summary**

This paper shows the usage of latex class HZNUMCM and gives most used examples for mathematical typeset. This paper can also be used as a handbook for typing latex. We give the pdf file and the source code file.

This HZNUMCM class file comes from easymcm, a latex .sty package and a simple MCM Contest Report Template for basic users from original template by latexstudio, <latexstudio@hotmail.com> improved by youjiarui189 (xjtu-blacksmith), <yjr134@163.com>.

This document also pick many pages from the not so not introduction to Latex [?], so that one can search quickly.

# Contents

# 1 Basic usage of the HZNUMCM class

## 1.1 Basic document structure for using HZNUMCM class

The basic .tex file structure is as the following and comment for each corresponding line is listed.

```

1  \documentclass{HZNUMCM}.      % class choose
2  \setControlNumber{8889888}    % set Control Number
3  \setContestType{MCM}         % contest type, only MCM or ICM allowed
4  \setProblemLetter{B}         % choose problem A,B,C,D,E or F
5  \setBibFilename{McmTexExample} % set bib file, without dot and suffix
6  \setPaperTitle{My Title}     % set your title
7  \setSummary{summary}         % define summary
8  \begin{document}
9      \showSummarySheet        % show summary, the first page.
10     \showContents            % show contents
11     \section{aaaa}
12     ...
13     \section{bbbb}
14     ...
15     ...
16     \showReferences          % show references
17 \end{document}

```

## 1.2 Process from source files to target .pdf

Usually, the process can be executed as following:

- Type what you think in the .tex file, following the Latex syntax.
- xelatex several times, biblatex one time and then xelatex several times again.

# 2 Introduction to mathematical typesetting within Latex

We choose mathematical typesetting from [?].

## 3 Some complements

We put the source code of the HZNUMCM latex class file and this file on the gitHub <https://github.com/hznu-maguochun/HZNUMCM>, so that one use it can understand it. Any one, who want to use or improve it, is welcome. This class file also gives an idea about how to make a formatted file.