

# Marsden Slide Package Documentation

Wendy G. McKay

wgm@cds.caltech.edu

Ross R. Moore

ross@ics.mq.edu.au



Control and Dynamical Systems

## Style Files

### Document class and packages used:

#### marslide-template.tex

```
%-----1
\documentclass[12pt]{article}
\usepackage[marsdefs, texpower, cm]{marslide}
\begin{document}
...
\end{document}
```

#### marslide.sty

```
%-----2
% These packages are called inside marslide.sty
%
\usepackage{amssymb, amsmath}
\usepackage{graphicx}
\usepackage{color}
\usepackage{verbatim}
\usepackage{multicol, tabularx}
\usepackage[...]{hugefonts}
\usepackage{hyperref}
\usepackage{texpower}
%
%
```

#### marsdefs.sty

```
%-----3
% This package defines the options
% [marsdefs, cm] to marslide.sty
% It sets the layout of the page, and style, &
% color of the fonts.
%
\usepackage[landscape, letterpaper, verbose,
, textheight=5.5 truein % calculated
, texwidth=10.0 truein % calculated
, voffset=0pt
, hoffset=0pt
, tmargin=0pt
, bmargin=0pt
, lmargin=36pt
, rmargin=36pt
, headheight=78pt
, headsep=20pt
, footskip=0.20truein
, tmargin=.10truein
]{geometry}
\addtolength{\voffset}{-.10truein}
```

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## Itemized Headline Levels

### First headline itemize

use `\begin{firstheadlineitemize}\item ...`

$$\alpha = \beta + \gamma$$

### And another item ... use `\item ...`

☐ Second headline itemize

☐ and yet another ...

use `\begin{secondheadlineitemize}\item ...`

$$\alpha = \beta + \gamma$$

### Third headline itemize

use `\begin{thirdheadlineitemize}\item ...`

$$\alpha = \beta + \gamma$$

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## Itemized Headline Levels

### Fourth headline itemize

use `\begin{fourthheadlineitemize}\item ...`

$$\alpha = \beta + \gamma$$

NOTE: The math displays above are centered relative to each itemized level and not the page width (the norm in the usual L<sup>A</sup>T<sub>E</sub>X itemize environment using the math display commands `\[ ... \]` or between `$$` symbols.) To do this use:

```
\begin{itemmath}
...
\end{itemmath}
```

within the `\{...headlineitemize\}` environments.

The following array of equations uses the width of the entire page.

$$\frac{d}{dt} \frac{\partial L}{\partial \dot{q}^i} - \frac{\partial L}{\partial q^i} = 0 \quad (1)$$

$$L(q, \dot{q}) = \frac{1}{2} \dot{q}^T M \dot{q} - V(q) \quad (2)$$

$$M \ddot{q} = -\nabla V(q) \quad (3)$$

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