To Add an MPS Header to the Title Page

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This paper describes package `mpshead`
version 1.0 from 2004/07/06

It is part of the `preprint` collection of packages

Summary

The stripped version of this file contains the following brief description:

```
% Use just as usual. Works with and without titlepage option
% For twocolumn, no titlepage, the abstract is written wide over
% the two columns.
% Takes options:
%  color colour   for coloured logo and institute name (default)
%  bw  sw         for black&white logo and name
% Additional commands:
% \reportno{MPS-xxxx} adds report number at top.
% \pagestyle{mpshead} or better \thispagestyle{mpshead} puts a head
%   on pages for documents without title pages
% Makes use of authblk package to enter authors and affiliations either in
% the standard manner with
%      \author{ ...  \and ... \and ...}
% or with alternative
%      \author{..} \author{..} \affil{..}
%      \author{..} \author{..} \affil{..}
% where each \author contains a single name, and \affil applies to all
% previous authors. Explicit footnote markers can be given with optional
% arguments \author[1]{..} .. \affil[1]{..}
```

1   Purpose

This package replaces the now obsolete `mpaehead`, and puts an MPS title and logo at the top of an article. It is meant to be used with the `preprint` class, but can be used on its own to add an institute logo using the page style `mpshead`.

2   Usage

This package need only be included with the `\usepackage` command of LATEX 2$_\varepsilon$,

```
\documentclass[..]{...}
\usepackage[⟨options⟩]{mpshead}
```

It takes options

`color colour` (default) to output logo and institute name in colour

`bw sw` to output the logo in black & white.

Everything then functions as for normal LATEX, as far as the user is concerned. In fact, internally things are quite different, so there could be bugs popping out.

To avoid the most blatant problems, the `\maketitle` command must be followed by one of

```
\begin{abstract} ... \end{abstract}
\part
\chapter
\section
\noabstract
```

without any intervening text. Commands that do not print text, like `\newpage` may come between.

`\reportno`   The only extra feature for the user is the `\reportno` command. This enters the MPAE report number (or any arbitrary text for that matter) that is printed above the headline. It is optional. Syntax is

```
\reportno{⟨number⟩}
```

`\author`   The `mpshead` package loads the `authblk` package that allows an alter-
`\affil`   native syntax for entering authors' names and affiliations. Standard LATEX uses

```
\author{author1, author2\\affil1
  \and
 author3, author4\\affil2}
```

whereas the new alternative is

```
\author{author1} \author{author2} \affil{affil1}
\author{author3} \author{author4} \affil{affil2}
```

This syntax will automatically select whether the authors are to be blocked by affiliations (standard) or whether they all appear in one line with footnotes for the affiliations.

A third method forces the footnote style by explicitly giving the footnotes as optional arguments.

> `\author[1]{`*author1*`} \author[1]{`*author2*`}`
> `\author[2]{`*author3*`} \author[2]{`*author4*`}`
> `\affil[1]{`*affil1*`} \affil[2]{`*affil2*`}`

`\authorcr`   In the standard method (`\author` without any `\affil` commands) the newline command `\\` is used to switch from author to affiliation text, with change of font. If a new line is to be forced within the author text, use `\authorcr` instead.

3   The Page Style `mpshead`

It is possible to add the MPS head to other documents, those without abstracts or sections. This is done by invoking the *page style* named `mpshead`. This can be done either as

> `\pagestyle{mpshead}`

to put the head on all pages, or as

> `\thispagestyle{mpshead}`

to put it on only the current page. This last is the recommended method.

This page style does not change the style of the footers. Thus if page style `plain` (the default for `article` class) is active, the page numbers at the bottom will be retained. With

> `\pagestyle{empty}`
> `\thispagestyle{mpshead}`

the page numbers at the bottom will be suppressed.

If this package is used with the `fullpage` package, then I recommend invoking the latter with the option `headings`, as

> `\usepackage[headings]{fullpage}`
> `\usepackage{mpshead}`
> `\pagestyle{empty}`
> `\thispagestyle{mpshead}`

In this way, `fullpage` leaves enough room at the top for the head. If it were invoked with the option `empty`, it would leave no space; the head would be set on the line one inch from the top, and the first line of text would be immediately below it.