hsrstud — HSR-Stud Style and Macros*

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1 Package Options

```
1 \newif\if@arrowvec\@arrowvecfalse
```

2 \DeclareOption{arrowvec}{\@arrowvectrue}

3

4 \ProcessOptions\relax

2 Mathematics

2.1 Formatting

\vec Typeset vectors, if the option

- 5 \if@arrowvec
- 6 \else
- 7 \renewcommand{\vec}[1]{\ensuremath{\bm{#1}}}
- 8 \fi

2.2 Equalities

\heq L'Hôpital limit equality symbol.

9 \newcommand{\heq}{\stackrel{\hat{\texttt{H}}}}{=}}

2.3 Derivatives

\dd The differential element. It needs a $\{\langle var \rangle\}$ and has the optional argument $[\langle exponent \rangle]$.

10 \newcommand{\dd}[2][]{\mathrm{d}^{#1} #2}

\di This is the same as \dd but with a small space before it, it is intended to be used in integrals for a nicer typesetting.

11 \newcommand{\di}[2][]{\,\dd[#1]{#2}}

\deriv The derivative has arguments $\{\langle function \rangle\}$, $\{\langle var \rangle\}$ and the optional argument $[\langle order \rangle]$.

 $12 \end{\deriv} [3] [] {\frac{\dd[#1]{#2}}{\dd[]{#3^{#1}}}}$

^{*}This file describes version v0.1, last revised 2020/04/16.

```
\pderiv The partial derivative has arguments {\langle function \rangle \}, {\langle var \rangle \} and the optional argument [\langle order \rangle \].

\tag{\text{13 \newcommand{\pderiv}[3][]}{\frac{\partial^{#1} #2}{\partial^{#1} #3}}}

\text{Yeard The gradient operator.}

\text{14 \newcommand{\grad}{\nabla}}

\text{The divergence operator, \div is renamed to \divsymb.}

\text{15 \let\divsymb=\div}
\text{16 \renewcommand{\div}{\nabla\cdot}}

\text{Curl The curl operator.}

\text{17 \newcommand{\curl}{\nabla\times}}

\text{laplace Operator.}

\text{18 \newcommand{\laplace}{\nabla^2}}
\end{and }
\text{18 \newcommand{\laplace}}
\text{18 \newcommand{\laplace}}
\end{and }
\text{18 \newcommand{\laplace}}
\text{18 \newcommand{\laplace}}
\end{and }
\text{18 \newcommand{\laplace}}
\text{
```

3 Colors

```
19 \definecolor{hsr-blue}{HTML}{0065A3}
20 \definecolor{hsr-blue80}{HTML}{3384B5}
21 \definecolor{hsr-blue60}{HTML}{66A3C8}
22 \definecolor{hsr-blue40}{HTML}{99C1DA}
23 \definecolor{hsr-blue20}{HTML}{CCE0ED}
25 \definecolor{hsr-mauve}{HTML}{6E1C50}
26 \definecolor{hsr-mauve80}{HTML}{8B4973}
27 \definecolor{hsr-mauve60}{HTML}{A87796}
28 \definecolor{hsr-mauve40}{HTML}{C5A4B9}
29 \label{lem:color} $$19 \rightarrow \frac{1}{E2D2DC}$
31 \definecolor{hsr-lakegreen}{HTML}{548C86}
32 \definecolor{hsr-lakegreen80}{HTML}{76A39E}
33 \definecolor{hsr-lakegreen60}{HTML}{98BAB6}
34 \definecolor{hsr-lakegreen40}{HTML}{BBD1CF}
35 \definecolor{hsr-lakegreen20}{HTML}{DDE8E7}
37 \definecolor{hsr-reed}{HTML}{7B6951}
38 \definecolor{hsr-reed80}{HTML}{958774}
39 \definecolor{hsr-reed60}{HTML}{BOA597}
40 \definecolor{hsr-reed40}{HTML}{CAC3B9}
41 \definecolor{hsr-reed20}{HTML}{E5E1DC}
42
43 \definecolor{hsr-petrol}{HTML}{00738D}
44 \definecolor{hsr-petrol80}{HTML}{338FA4}
45 \definecolor{hsr-petrol60}{HTML}{66ABBB}
46 \definecolor{hsr-petrol40}{HTML}{99C7D1}
47 \definecolor{hsr-petrol20}{HTML}{CCE3E8}
48
49 \definecolor{hsr-basswood}{HTML}{BABD5D}
50 \definecolor{hsr-basswood80}{HTML}{C8CA7D}
51 \definecolor{hsr-basswood60}{HTML}{D6D79E}
```

```
52 \definecolor{hsr-basswood40}{HTML}{E3E5BE}
53 \definecolor{hsr-basswood20}{HTML}{F1F2DF}
54
55 \definecolor{hsr-lightgrey}{HTML}{C6C7C8}
56 \definecolor{hsr-lightgrey80}{HTML}{D1D2D3}
57 \definecolor{hsr-lightgrey60}{HTML}{DDDDDE}
58 \definecolor{hsr-lightgrey40}{HTML}{E8E8E9}
59 \definecolor{hsr-lightgrey20}{HTML}{F4F4F4}
60
61 \definecolor{hsr-black}{HTML}{1A171B}
62 \definecolor{hsr-black80}{HTML}{484549}
63 \definecolor{hsr-black60}{HTML}{767476}
64 \definecolor{hsr-black40}{HTML}{A4A2A4}
65 \definecolor{hsr-black20}{HTML}{D1D1D1}
```