The nccbbb package*

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1 User Interface

\bbb... The package implements the following poor black board bold math symbols:

Command	Symbol	Command	Symbol
\bbbb	${ m I}\!{ m B}$	\bbbm	${\rm I\!M}$
\bbbc	${\mathbb C}$	\bbbn	${ m I\! N}$
\bbbd	${ m I\!D}$	\bbbo	\mathbb{O}
\bbbe	${\rm I\!E}$	\bbbp	${ m I\!P}$
\bbbf	${\rm I\!F}$	\bbbq	$\mathbb Q$
\bbbg	${f G}$	\bbbr	${ m I\!R}$
\bbbh	${\rm I\!H}$	\bbbs	${\mathbb S}$
\bbbi	${\rm I\hspace{1em}I}$	\bbbz	\mathbb{Z}
\bbbk	${ m I\!K}$	\bbbzero	0
\bbbl	${\rm I\!L}$	\bbbone	1

It was designed to provide the compatibility with old macros of NCC-LATEX. We recommend use the \mathbb command from the amsfonts package instead.

2 The Implementation

Declare commands of the user interface:

- $1 \langle *package \rangle$
- 2 \newcommand\bbbb{\NCC@bbb{B}}
- $\verb| 3 \end{bbbc} {\NCC@bbbz{C(\NCC@bbbr{.03}{.35}{.9}{.1}}} \\$
- 4 \newcommand\bbbd{\NCC@bbb{D}}
- 5 \newcommand\bbbe{\NCC@bbb{E}}
- 6 \newcommand\bbbf{\NCC@bbb{F}}
- $\label{locality} $$ \newcommand\bbg{{\NCC@bbbz{G}\NCC@bbbr{.05}{.3}{.88}{.09}}}$$$
- 8 \newcommand\bbbh{\NCC@bbb{H}}

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```
10 \newcommand\bbbk{\NCC@bbb{K}}
11 \newcommand\bbbl{\NCC@bbb{L}}
12 \newcommand\bbbm{\NCC@bbbi{M}}
13 \newcommand\bbbn{\NCC@bbbi{N}}
14 \end{bbbo} { \{\NCC@bbbz\{0\{\NCC@bbbr\{.05\}\{.3\}\{.9\}\}\}\} \}}
15 \mbox{ } \mbox{\command\bbbp{\NCC@bbb{P}}}
16 \verb|\newcommand\bbbq{{\NCC@bbbz{Q{\NCC@bbbr{.05}{.3}{..9}{..09}}}}|
17 \newcommand\bbbr{\NCC@bbb{R}}
18 \end{bbbs} { \NCC@bbbz{S}(\NCC@bbbr{.5}{.3}{.45}{.07}\% )} \\
19 \NCC@bbbr{0}{.55}{.5}{.07}}}}
\label{locality} $$20 \end{align*} $$20 \end{align*} $$2^{\end{align*}} $$20 \end{align*} $$20 \end{
21 \setminus Mathsf Z}
22 \newcommand\bbbzero{{\NCC@bbbz{O{\NCC@bbbr{.05}{.3}{.9}}{.06}}%}
23 \NCC@bbbr{.05}{.6}{.9}{.06}}}}
24 \newcommand\bbbone{\mathrm{1\NCC@bbbz{1{\kern -0.88\wd\z@}}}}
              Define base commands:
25 \def\NCC@bbb#1{\mathrm{I\mskip -3.5mu#1}}
26 \end{10} \label{lem:likelihood} 26 \end{10} $$ \end{10} $$$ \
27 \mskip -3mu#1}}
28 \def\NCC@bbbz{\mathpalette\NCC@bbbz@}
29 \ensuremath{\mbox{\mbox{\tt def}\mbox{\tt NCC@bbbz@{\tt 41}$\#2}}
30 \ef\NCC@bbbz@@#1#2#3{\setbox\z@\hbox{$\m@th#1{\mathbb{42}}}}$\\ #3\box\z@}
31 \ensuremath{\tt 31 \ensuremath{\tt 31 \ensuremath{\tt 31 \ensuremath{\tt 31 \ensuremath{\tt 24344\ensuremath{\tt 31} \ensuremath{\tt 31}}} }
32 \vrule \@height #3\ht\z@ \@width #4\wd\z@\hss}}
33 (/package)
```