MathTıme™
Professional

PostScript fonts
for typesetting
mathematics
with T_EX

Font Supplement B

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The *MathTıme*™ *Professional* Fonts
Font Supplement B

Introduction

Font Supplement B for the *MathTıme Professional* fonts* provides script and fraktur fonts (together with bold versions) to accompany the other *MathTıme Professional* fonts.

To access these fonts with LaTeX, use `mtpb.sty`, which is documented in `mtpb.pdf` (with full implementation details available in the source file `mtpb.dtx`). The rest of this document is intended for `plain` TeX users. To make use of these fonts in `plain` TeX, you should have

        \input mtpb

in your file, at some point after the `\input mtp` line.

I. Fraktur

The *MathTıme Professional* Math Fraktur font contains only letters, although a few letters have alternate versions, indicated in brackets (and there are still dotless i and j):

$$\mathfrak{ABCDEFGHIJKLMNOPQRSTUVWXY}[\mathfrak{Y}]\mathfrak{Z}$$
$$\mathfrak{abcdefghijklmnopqrstuvwx}[\mathfrak{x}]\mathfrak{y}[\mathfrak{y}]\mathfrak{z}$$

The Bold Math Fraktur font is similar:

$$\mathfrak{ABCDEFGHIJKLMNOPQRSTUVWXY}[\mathfrak{Y}]\mathfrak{Z}$$
$$\mathfrak{abcdefghijklmnopqrstuvwx}[\mathfrak{x}]\mathfrak{y}[\mathfrak{y}]\mathfrak{z}$$

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To use the math fraktur font, put

        \loadmfrak

in your file. This will load the appropriate fonts and define a control sequence
\mfrak with one argument, so that `$\mfrak a,\ldots,\mfrak Z$` gives
$\mathfrak{a},\ldots,\mathfrak{Z}$. In addition, you can

type	*to get*
\mfrak\altx	$\mathfrak{x}$
\mfrak\alty	$\mathfrak{y}$
\mfrak\altY	$\mathfrak{Y}$
\mfrak\imath	$\imath$
\mfrak\jmath	$\jmath$

NOTE: The symbols $\Re$ (\Re) and $\Im$ (\Im) from the basic *MathTime Professional* fonts are not exactly the same as the $\Re$ and $\Im$ from the math fraktur font. If you have loaded the math fraktur fonts, and would prefer to have these fraktur letters for \Re and \Im, you can just redefine \Re to mean \mfrak R and \Im to mean \mfrak I.

For the bold math fraktur font put

        \loadbmfrak

in your file, which will define a control sequence \bmfrak, that works just like \mfrak, including constructions like \bmfrak\altx, etc.

II. Script

The *MathTime Professional* Math Script font has alternate versions for several different letters,

$$\mathcal{ABCDEFGHIJKLMNOPQRSTUVWXYZ}$$
$$[\mathcal{CGLQYZ}]$$
$$\mathcal{abcdefghijklmnopqr}[r]\mathcal{stuvwxyz}[z]$$

and the Bold Math Script is similar:

$$\mathcal{ABCDEFGHIJKLMNOPQRSTUVWXYZ}$$
$$[\mathcal{CGLQYZ}]$$
$$\mathcal{abcdefghijklmnopqr}[\mathcal{r}]\mathcal{stuvwxyz}[\mathcal{z}]$$

To use the math script font, put

        \loadmscript

in your file, to load the fonts and define a control sequence \mscript with
one argument. As with to \mfrak, you can

type	*to get*
\mscript\altC	$\mathcal{C}$
\mscript\altG	$\mathcal{G}$
\mscript\altL	$\mathcal{L}$
\mscript\altQ	$\mathcal{Q}$
\mscript\altY	$\mathcal{Y}$
\mscript\altZ	$\mathcal{Z}$
\mscript\imath	$\imath$
\mscript\jmath	$\jmath$
\mscript\altr	$\mathcal{r}$
\mscript\altz	$\mathcal{z}$

The bold math script font is handled exactly analogously.