# MathHub Support for STEX\*

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### Abstract

The sref package is part of the STEX collection, a version of TEX/LATEX that allows to markup TEX/LATEX documents semantically without leaving the document format, essentially turning TEX/LATEX into a document format for mathematical knowledge management (MKM).

The  ${\tt mathhub}$  packages extend SIEX with support for the MathHub.info portal

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<sup>\*</sup>Version ? (last revised ?)

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# 1 Introduction

Much of the STEX content is hosted on MathHub (http://MathHub.info), a portal and archive for flexiformal mathematics. MathHub offers GIT repositories (public and private escrow) for mathematical documentation projects, online and offline authoring and document development infrastructure, and a rich, interactive reading interface. The modules package supports repository-sensitive operations on MathHub.

Note that MathHub has two-level repository names of the form  $\langle group \rangle / \langle repo \rangle$ , where  $\langle group \rangle$  is a MathHub-unique repository group and  $\langle repo \rangle$  a repository name that is  $\langle group \rangle$ -unique. The file and directory structure of a repository is arbitrary – except that it starts with the directory source because they are Math Archives in the sense of [Hor+11]. But this structure can be hidden from the STEX author with MathHub-enabled versions of the STEX macros, which are defined in this package.

Caveat if you want to use the MathHub support macros (let's call them mh-variants), then every time a module is imported or a document fragment is included from another repos, the mh-variant \importmhmodule must be used, so that the "current repository" is set accordingly. To be exact, we only need to use mh-variants, if the imported module or included document fragment use mh-variants.

# 2 The User Interface

# 2.1 Package Options

none so far

### 2.2 modules-mh: MH Variants for Modules

\importmhmodule

The importmhmodule macro is a variant of \importmodule with repository support. Instead of writing

\defpath{MathHub}{/user/foo/lmh/MathHub}
\importmodule[load=\MathHub{fooMH/bar/source/baz/foobar}]{foobar}

we can simply write (assuming that \MathHub is defined as above)

\importmhmodule[repos=fooMH/bar,path=baz/foobar]{foobar}

Note that the **\importmhmodule** form is more semantic, which allows more advanced document management features in MathHub.

If baz/foobar is the "current module", i.e. if we are on the MathHub path ...MathHub/fooMH/bar..., then stating the repository in the first optional argument is redundant, so we can just use

\importmhmodule[path=baz/foobar]{foobar}

if no file needs to loaded, \importmhmodule is the same as \importmodule.

\mhcurrentrepos

Of course, neither LATEX nor LATEXMLknow about the repositories when they are called from a file system, so we can use the \mhcurrentrepos macro to tell them. But this is only needed to initialize the infrastructure in the driver file. In particular, we do not need to set it in in each module, since the \importmhmodule macro sets the current repository automatically.

\usemhmodule \mhinputref \mhinput The \usemhmodule is the analog to \usemodule.

For this, the modules package supplies the mh-variants \mhinputref and \mhinput of the \inputref macro introduced above and normal LATEX \input macro.

### 2.3 omtext-mh: MH Variants for OMText

\mhcgraphics

The \mhcgraphics macro is a variant of \mycgraphics with repository support. Instead of writing

\defpath{MathHub}{/user/foo/lmh/MathHub}
\mycgraphics{\MathHub{fooMH/bar/source/baz/foobar}}

we can simply write (assuming that \MathHub is defined as above)

\mhcgraphics[fooMH/bar]{baz/foobar}

Note that the \mhcgraphics form is more semantic, which allows more advanced document management features in MathHub.

# 2.4 smultiling-mh: MH Variants for Multilinguality

1 2

# 2.5 structview-mh: MH Variants for Structures and Views

3

# 2.6 mikoslides-mh: Support for MiKo Slides

\mhframeimage

EdN:3

EdN:3

The \mhframeimage macro is a variant of \frameimage with repository support. Instead of writing

\defpath{MathHub}{/user/foo/lmh/MathHub}
\frameimage{\MathHub{fooMH/bar/source/baz/foobar}}

 $<sup>^{1}\</sup>mathrm{EdNote}$  needs to be documented

 $<sup>^2\</sup>mathrm{EdNote}$ : mhmodsig seems to be missing what happened?

 $<sup>^3\</sup>mathrm{EdNote}$ : needs to be documented

we can simply write (assuming that \MathHub is defined as above)

\mhframeimage[fooMH/bar]{baz/foobar}

Note that the \mhframeimage form is more semantic, which allows more advanced document management features in MathHub.

If baz/foobar is the "current module", i.e. if we are on the MathHub path ...MathHub/fooMH/bar..., then stating the repository in the first optional argument is redundant, so we can just use

\mhframeimage{baz/foobar}

# 2.7 problem-mh: Support for Problems

\includemhproblem

The \includemhproblem macro is a variant of \includeproblem with repository support. Instead of writing

```
\defpath{MathHub}{/user/foo/lmh/MathHub}
\includeproblem[pts=7]{\MathHub{fooMH/bar/source/baz/foobar}}
```

we can simply write (assuming that \MathHub is defined as above)

\includemhproblem[fooMH/bar]{baz/foobar}

Note that the \importmhproblem form is more semantic, which allows more advanced document management features in MathHub.

# 2.8 hwexam-mh: Support for Assignments

\includemhassignment

The \includemhassignment macro is a variant of \includeassignment with repository support. Instead of writing

```
\defpath{MathHub}{/user/foo/lmh/MathHub}
\includeassignment[pts=7]{\MathHub{fooMH/bar/source/baz/foobar}}
```

we can simply write (assuming that \MathHub is defined as above)

\includemhassignment[fooMH/bar]{baz/foobar}

# 3 Limitations

In this section we document known limitations. If you want to help alleviate them, please feel free to contact the package author. Some of them are currently discussed in the ST<sub>E</sub>X GitHub repository [sTeX].

1. none reported yet.

# 4 Implementation

We need to set up the packages by requiring the metakeys package [Koh16] to be loaded (in the right version).

```
1 \( *package \)
2 \RequirePackage \( keyval \)
```

### 4.1 General Infrastructure

3 \newcommand\mhcurrentrepos[1]{%

\mhcurrentrepos \@mhcurrentrepos \mhcurrentrepos is used to initialize the current repository. If the repos has changed, it writes a call to the internal macro \@mhcurrentrepos for the aux file and calls it. So that the \importmodule calls there work with the correct repos.

```
\edef\@test{#1}%
               \ifx\@test\mh@currentrepos% if new dir = old dir
                 \relax% no need to change
           6
           7
                 \protected@write\@auxout{}{\string\@mhcurrentrepos{#1}}%
           8
               \fi%
           9
               \@mhcurrentrepos{#1}% define mh@currentrepos
           10
           12 \newcommand\@mhcurrentrepos[1]{\edef\mh@currentrepos{#1}}%
\libinput the \libinput macro inputs from the lib directory of the MathHub repository
           or the meta-inf/lib repos of the group.
           13 \def\modules@@first#1/#2;{#1}
           14 \newcommand\libinput[1] {\def\@libfile{\MathHub{\mh@currentrepos/lib/#1}}%
           15 \IfFileExists{\@libfile}{\input\@libfile}%
           16 {\edef\@@group{\expandafter\modules@@first\mh@currentrepos;}
           17 \edef\@inffile{\MathHub{\@@group/meta-inf/lib/#1}}
           18 \IfFileExists{\@inffile}{\input{\@inffile}}%
           19 {\PackageError{modules}
               {Library file missing, cannot input #1\MessageBreak%
                 Both \@libfile.tex\MessageBreak and \@inffile.tex\MessageBreak do not exist}%
              {Check whether the file name is correct}}}}
```

# 4.2 modules-mh: MH Variants for Modules

We set up package options and pass them on to the modules package, which we also load.

```
also load.
24 (*modules)
```

 $25 \ProvidesPackage{modules-mh}[2016/04/05 v1.0 MathHub support for the sTeX modules package] <math>26 \RequirePackage{mathhub}$ 

\importmhmodule

23 (/package)

The  $\infty = value | list \] {module}$  saves the current value of  $\mbox{mh@currentrepos}$  in a local macro  $\mbox{mh@currentrepos}$  to the new value if one is given in the optional argument, and after importing resets

\mh@currentrepos to the old value in \mh@crepos. We do all the \ifx comparison with an \expandafter, since the values may be passed on from other key bindings. Parameters will be passed to \importmodule.

```
27 \srefaddidkey{importmhmodule}\%
28 \addmetakey{importmhmodule}{repos}% saves the repo's path. E.g: smglom/numberfield
29 \addmetakey{importmhmodule}{path}% saves the module name. E.g: naturalnumbers
30 \addmetakey[sms]{importmhmodule}{ext}% saves the extension: E.g: tex
31 \addmetakey[false]{importmhmodule}{conservative}[true]%
32 \newcommand\importmhmodule[2][]{%
    \metasetkeys{importmhmodule}{#1}%
33
    \ifx\importmhmodule@path\@empty% if module name is not set
34
35
      \importmodule[ext=\importmhmodule@ext,id=\importmhmodule@id]{#2}%
36
      \edef\mh@@repos{\mh@currentrepos}% remember so that we can reset it.
37
      \ifx\importmhmodule@repos\@empty% if in the same repos
38
        \relax% no need to change mh@currentrepos, i.e, current dirctory.
39
      \else%
40
        \mhcurrentrepos{\importmhmodule@repos}% change it.
41
42
      \importmodule[load=\MathHub{\mh@currentrepos/source/\importmhmodule@path},%
43
      ext=\importmhmodule@ext,id=\importmhmodule@id]{#2}%
44
45
      \mhcurrentrepos{\mh@@repos}% after importing, reset to old value
    \fi%
46
    \ignorespaces%
47
48 }%
and now the analogs
49 \newcommand\usemhmodule[2][]{%
    \metasetkeys{importmhmodule}{#1}%
50
    \ifx\importmhmodule@path\@empty%
51
      52
    \else%
53
54
      \edef\mh@@repos{\mh@currentrepos}%
55
      \ifx\importmhmodule@repos\@empty%
56
        \mhcurrentrepos{\importmhmodule@repos}%
57
58
      \usemodule[load=\MathHub{\mh@currentrepos/source/\importmhmodule@path},ext=\importmhmodule@
59
      \mhcurrentrepos\mh@@repos%
60
61
    \fi%
    \ignorespaces%
63 }%
```

\usemhmodule

\mhinputref

64 \newcommand\mhinputref[2][]{% 65 \def\@repos{#1}%

\edef\mh@currentrepos}%

```
\ifx\@repos\@empty%
             67
                 \else%
             68
                    \mhcurrentrepos{#1}%
             69
             70
                 \inputref{\MathHub{\mh@currentrepos/source/#2}}%
             71
             72
                 \mhcurrentrepos\mh@@repos%
                 \ignorespaces%
             74 }%
   \mhinput
             75 \let\mhinput\mhinputref%
             76 (/modules)
             4.3
                    omtext-mh: MH Variants for OMText
             We set up package options and pass them on to the omtext package, which we
             also load.
             77 (*omtext)
             78 \ProvidesPackage{omtext-mh}[2016/04/05 v1.0 MathHub support for the sTeX omtext package]
             79 \RequirePackage{mathhub}
             Use the current value of \mh@currentrepos or the value of the mhrepos key if it
\mh*graphics
             is given in \my*graphics.
             80 \def\Gin@mhrepos{}
             81 \define@key{Gin}{mhrepos}{\def\Gin@mhrepos{#1}}
             82 \newcommand\mhgraphics[2][]{\setkeys{Gin}{#1}%
             83 \edef\mh@@repos{\mh@currentrepos}%
             84 \ifx\Gin@mhrepos\@empty\mygraphics[#1]{\MathHub{\mh@currentrepos/source/#2}}%
             85 \else\mygraphics[#1]{\MathHub{\Gin@mhrepos/source/#2}}\fi
             86 \def\Gin@mhrepos{}\mhcurrentrepos\mh@@repos}
             87 \end{mhcgraphics [2] [] {\end{center}} } $
             88 \newcommand\mhbgraphics[2][]{\fbox{\mhgraphics[#1]{#2}}}
             89 \newcommand\mhcbgraphics[2][]{\begin{center}\fbox{\mhgraphics[#1]{#2}}\end{center}}
             90 (/omtext)
                    smultiling-mh: MH Variants for Multilinguality
             4.4
             We set up package options and pass them on to the smultiling package, which
             we also load.
             91 (*smultiling)
             92 \ProvidesPackage{smultiling-mh}[2016/04/05 v1.0 MathHub support for the sTeX smultiling package
             93 \RequirePackage{mathhub}
  mhmodnl:*
             94 \addmetakey{mhmodnl}{repos}
             95 \addmetakey{mhmodnl}{path}
             96 \addmetakey*{mhmodnl}{title}
```

97 \addmetakey\*{mhmodnl}{creators}

```
98 \addmetakey*{mhmodnl}{contributors}
                                 99 \addmetakey{mhmodnl}{srccite}
                              100 \addmetakey{primary}{mhmodnl}[yes]
      mhmodnl The mhmodnl environment is just a layer over the module environment and the
                                 \importmhmodule macro with the keys and language suitably adapted.
                              101 \newenvironment{mhmodnl}[3][]{\metasetkeys{mhmodnl}{#1}\def\@test{#1}%
                              102 \ \texttt{ifx} \ \texttt{module} \ \texttt{[id=\#2.\#3]} \ \texttt{module} \ \texttt{[id=\#2.\#3,\#1]} \ \texttt{fiiiid=\#2.\#3,\#1} \ \texttt{fiiid=\#2.\#3,\#1} \ \texttt{fiid=\#2.\#3,\#1} \ \texttt{fiiid=\#2.\#3,\#1} \ \texttt{fiiid=\#2.\#3,\#1} \ \texttt{fiiid=\#2
                              103 \edef\@repos\\ifx\mhmodnl@repos\@empty\mh@currentrepos\else\mhmodnl@repos\fi}
                              104 \if@langfiles\importmhmodule[repos=\@repos,path=#2,ext=tex]{#2}\else
                              105 \ifx\mhmodnl@path\@empty\importmodule{#2}\else\importmodule[ext=tex,path=\mhmodnl@load]{#2}\fi%
                              106 \fi%
                              107 \ignorespacesandpars}
                              108 {\end{module}\ignorespacesandparsafterend}
mhviewsig The mhviewsig environment is just a layer over the mhview environment with the
                                 keys suitably adapted.
                              109 \newenvironment{mhviewsig}[4][]{\def\@test{#1}\ifx\@test\@empty%
                              110 \begin{mhview}[id=#2,ext=tex]{#3}{#4}\else%
                              111 \begin{mhview}[id=#2,#1,ext=tex]{#3}{#4}\fi%
                              112 \ignorespacesandpars}
                              113 {\end{mhview}\ignorespacesandparsafterend}
   mhviewnl The mhviewnl environment is just a layer over the mhviewsketch environment
                                 with the keys and language suitably adapted.<sup>4</sup>
                              114 \newenvironment{mhviewnl}[5][]{\def\@test{#1}\ifx\@test\@empty%
                              115 \begin{mhviewsketch}[id=#2.#3,ext=tex]{#4}{#5}\else%
                              116 \begin{mhviewsketch}[id=#2.#3,#1,ext=tex]{#4}{#5}\fi%
                              117 \ignorespacesandpars}
                              118 {\end{mhviewsketch}\ignorespacesandparsafterend}
                              119 (/smultiling)
```

### 4.5 structview-mh: MH Variants for Structures and Views

We set up package options and pass them on to the **structview** package, which we also load.

120 (\*structview)

121 \ProvidesPackage{structview-mh}[2016/04/05 v1.0 MathHub support for the sTeX structview package 122 \RequirePackage{mathhub}

#### importmhmodulevia

EdN:4

```
123 \newenvironment{importmhmodulevia}[3][]{%
124 \gdef\@@doit{\importmhmodule[#1]{#2}{#3}}%
125 \ifmod@show\par\noindent importing module #2 via \@@doit\fi%
126 \ignrespacesandpars%
127 }{%
```

 $<sup>^4\</sup>mathrm{EDNote}$ : MK: we have to do something about the if@langfiles situation here. But this is non-trivial, since we do not know the current path, to which we could append  $.\langle lang \rangle !$ 

```
\ignrespacesandparsafterend%
             129
             130 }%
             131 \srefaddidkey{mhview}
             132 \addmetakey{mhview}{display}
             133 \addmetakey{mhview}{creators}
             134 \addmetakey{mhview}{contributors}
             135 \addmetakey{mhview}{srccite}
             136 \addmetakey*{mhview}{title}
             137 \addmetakey{mhview}{type}
             138 \addmetakey{mhview}{fromrepos}
             139 \addmetakey{mhview}{torepos}
             140 \addmetakey{mhview}{frompath}
             141 \addmetakey{mhview}{topath}
             142 \addmetakey[sms]{mhview}{ext}
     mhview the MathHub version
             143 \newenvironment{mhview}[3][]{% keys, from, to
             144
                  \metasetkeys{mhview}{#1}%
             145
                  \sref@target%
                  \begin{@mhview}{#2}{#3}%
             146
                  147
                  \ignrespacesandpars%
             148
             149 }{%
                  \end{@mhview}%
             150
                  \ignorespacesandparsafterend%
             151
             152 }%
             153 \ifmod@show\surroundwithmdframed{mhview}\fi
    Omhview The Omhview does the actual bookkeeping at the module level.
             154 \newenvironment{@mhview}[2]{%from, to
                  \importmhmodule[repos=\mhview@fromrepos,path=\mhview@frompath,ext=\mhview@ext]{#1}%
                  \importmhmodule[repos=\mhview@torepos,path=\mhview@topath,ext=\mhview@ext]{#2}%
             157 }{}%
mhviewsketch The mhviewsketch environment behaves like mhview, but only has text contents.
             158 \newenvironment{mhviewsketch}[3][]{%
                  \metasetkeys{mhview}{#1}%
             159
                  \sref@target%
             160
                  \begin{@mhview}{#2}{#3}%
             161
                  \view@heading{#2}{#3}{\mhview@display}{\mhview@title}%
             162
                  \ignrespacesandpars%
             163
             164 }{%
                  \end{@mhview}%
             165
                  \ignorespacesandparsafterend%
             166
             167 }%
             168 \ifmod@show\surroundwithmdframed{mhviewsketch}\fi
             169 (/structview)
```

\aftergroup\@@doit\ifmod@show end import\fi%

#### mikoslides-mh: Support for MiKo Slides 4.6

We set up package options and pass them on to the mikoslides package, which we also load.

```
170 (*mikoslides)
```

171 \ProvidesPackage{mikoslides-mh}[2016/04/05 v1.0 MathHub support for the sTeX mikoslides package 172 \RequirePackage{mathhub}

\mhframeimage Use the current value of \mh@currentrepos or the value of the mhrepos key if it is given in \frameimage.

```
173 \def\Gin@mhrepos{}
```

174 \define@key{Gin}{mhrepos}{\def\Gin@mhrepos{#1}}

175 \newcommand\mhframeimage[2][]{%

\setkeys{Gin}{#1}% 176

\edef\mh@@repos{\mh@currentrepos}% 177

\ifx\Gin@mhrepos\@empty% 178

\frameimage[#1]{\MathHub{\mh@currentrepos/source/#2}}% 179

180 \else%

181 \frameimage[#1]{\MathHub{\Gin@mhrepos/source/#2}}%

182 \fi%

183 }%

184 (/mikoslides)

# problem-mh: Support for Problems

We set up package options and pass them on to the problem package, which we also load.

185 (\*problem)

186 \ProvidesPackage{problem-mh}[2016/04/05 v1.0 MathHub support for the sTeX problem package] 187 \RequirePackage{mathhub}

### \includemhproblem

The \includemhproblem saves the current value of \mh@currentrepos in a local macro \mh@curepos, resets \mh@currentrepos to the new value if one is given in the optional argument, and after importing resets \mh@currentrepos to the old value in \mh@@repos.

188 \newcommand\includemhproblem[2][]{\metasetkeys{inclprob}{#1}%

189 \edef\mh@@repos{\mh@currentrepos}%

190 \ifx\inclprob@mhrepos\@empty\else\mhcurrentrepos\inclprob@mhrepos\fi%

191 \input{\MathHub{\mh@currentrepos/source/#2}}%

192 \mhcurrentrepos\mh@@repos\clear@inclprob@keys}

193 (/problem)

#### 4.8 hwexam-mh: Support for Assignments

We set up package options and pass them on to the hwexam package, which we also load.

```
194 (*hwexam)
```

195 \ProvidesPackage{hwexam-mh}[2016/04/05 v1.0 MathHub support for the sTeX hwexam package] 196 \RequirePackage{mathhub}

### \includemhassignment

The \includemhassignment saves the current value of \mh@currentrepos in a local macro \mh@@repos, resets \mh@currentrepos to the new value if one is given in the optional argument, and after importing resets \mh@currentrepos to the old value in \mh@@repos.

- 197 \newcommand\includemhassignment[2][]{\metasetkeys{inclassig}{#1}%
- 198 \edef\mh@@repos{\mh@currentrepos}%
- 199 \ifx\inclassig@mhrepos\@empty\else\mhcurrentrepos\inclassig@mhrepos\fi%
- 200 \includeassignment[#1]{\MathHub{\mh@currentrepos/source/#2}}%
- 201 \mhcurrentrepos\mh@@repos\clear@inclassig@keys}

## \inputmhassignment analogous

- 202 \newcommand\inputmhassignment[2][]{\metasetkeys{inclassig}{#1}%
- 203 \edef\mh@@repos{\mh@currentrepos}%
- 204 \ifx\inclassig@mhrepos\@empty\else\mhcurrentrepos\inclassig@mhrepos\fi%
- 205 \inputassignment[#1] {\MathHub{\mh@currentrepos/source/#2}}%
- 206 \mhcurrentrepos\mh@@repos\clear@inclassig@keys}
- 207 (/hwexam)

#### tikzinput-mh: Support for Assignments 4.9

We set up package options and pass them on to the tikzinput package, which we also load.

- 208 (\*tikzinput)

209 \ProvidesPackage{tikzinput-mh}[2016/04/05 v1.0 MathHub support for the sTeX tikzinput package]

- 210 \RequirePackage{mathhub}
- 211 \RequirePackage{pathsuris}
- 212 \define@key{Gin}{mhrepos}{\def\Gin@mhrepos{#1}}
- 213 \newcommand\mhtikzinput[2][]{\def\Gin@mhrepos{}\setkeys{Gin}{#1}%
- 214 \edef\mh@@repos{\mh@currentrepos}%
- 215 \ifx\Gin@mhrepos\@empty\tikzinput[#1]{\MathHub{\mh@currentrepos/source/#2}}%
- 216 \else\tikzinput[#1]{\MathHub{\Gin@mhrepos/source/#2}}\fi
- 217 \def\Gin@mhrepos{}\mhcurrentrepos\mh@@repos}
- 218 \newcommand\cmhtikzinput[2][]{\begin{center}\mhtikzinput[#1]{#2}\end{center}}
- 219 (/tikzinput)

# References

- [Hor+11] Fulya Horozal et al. "Combining Source, Content, Presentation, Narration, and Relational Representation". In: *Intelligent Computer Mathematics*. Ed. by James Davenport et al. LNAI 6824. Springer Verlag, 2011, pp. 212-227. ISBN: 978-3-642-22672-4. URL: http://kwarc.info/frabe/Research/HIJKR\_dimensions\_11.pdf.
- [Koh16] Michael Kohlhase. metakeys.sty: A generic framework for extensible Metadata in LATEX. Tech. rep. Comprehensive TEX Archive Network (CTAN), 2016. URL: http://mirror.ctan.org/macros/latex/contrib/stex/sty/metakeys/metakeys.pdf.
- [sTeX] KWARC/sTeX. URL: https://github.com/KWARC/sTeX (visited on 05/15/2015).