

The mkessler-mathfig package

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Abstract

This is just some small wrapper package for drawing mathematical figures.

1 Loaded packages

We load `pgfplots`, `tikz`, `tikz-cd` and `xy`.

2 Additional macros

<code>\pushoutsymbol</code>	Denotes a pushoutsymbol used in category theory diagrams.
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<code>\pullbacksymbol</code>	Denotes a pullbacksymbol used in category theory diagrams.
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<code>\pushout</code>	<code>\pushout[<i><path to bottom right corner></i>]</code>
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Invoked inside a `tikzcd` environment. This assumes being called in the top left corner of some commutative square and marks this square as a pushout.

The *<path>* consists of symbols `d`, `u`, `r` and `l`, as in `tikz-cd`. By default, it is `dr`, being usable for default squares.

A phantom arrow is drawn in the given direction that gets a `\pushoutsymbol`.

<code>\pullback</code>	<code>\pullback[<i><path to bottom right corner></i>]</code>
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Invoked inside a `tikzcd` environment. This assumes being called in the top left corner of some commutative square and marks this square as a pullback.

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The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

P

`\pullback` *1* 1

<code>\pullbacksymbol</code>	<i>1</i>	<code>\pushoutsymbol</code>	<i>1</i>
<code>\pushout</code>	<i>1</i>			