

Title of the talk which can span over more lines

First Author¹, Second Author^{1,2} and Last Author²

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name.surname@unileoben.ac.at

Name of the Conference

1 January 2026

Versetzung Berge

Outline

1. Overview
2. Basics
3. Lists and overlays
4. Figures
5. More tools

Class options



Footer	<code>defaultFootings*</code> , <code>fullFootings</code> , <code>lectureFootings</code> , <code>emptyFootings</code> (see below)
Slide numbers	<code>slideSingleNumber*</code> , <code>slideTotalNumber</code> (current/total)
Sidebar	<code>showSidebar*</code> , <code>hideSidebar</code> ; <code>showOthersSubsections*</code> , <code>hideOthersSubsections</code>
Language	<code>DElocalization*</code> , <code>ENlocalization</code> (logo, claim, texts); <code>DElogo</code> , <code>ENlogo</code> , <code>DEslogan</code> , <code>ENSlogan</code> (logo or claim only)

Title slide	<code>lightTitle*</code> , <code>darkTitle</code>
Text font	<code>classicFont*</code> (Latin Modern Sans), <code>brandFont</code> (Host Grotesk)
Results	<code>showResults*</code> , <code>hideResults</code> (<code>\showResults</code>)
beamer	all other options are passed to beamer, e.g. <code>trans</code> , <code>handout</code> ; the aspect ratio is always 16:9

* default

`defaultFootings`

Versetz' Berge F. Author *et al.* | Department of Materials Science 5

`lectureFootings`

Versetz' Berge Name of the Course 5

`fullFootings`

Versetz' Berge F. Author: Short title Name of the Conference 1 January 2026 5/9

`emptyFootings`

5

with `fullFootings` in lecture mode, the conference is replaced by the current section/subsection, e.g. *1.2 Subsection*

Title slide `\title[<short>], \author[<short>]`
with `\aff{<n>}`, `\institute[<unit for footer>]`, `\email`, `\date`, `\conference` (talk) or `\lecture` (lecture mode),
`\additionsToTitlePage`

Settings `\ setFrameLogo`, `\ setTitleLogo`,
`\ setSlogan`, `\ setThanksText`,
`\ setAgendaTitle`, `\ setDarkBackground`,
`\ website`, `\ setQRcode`

Special slides `\ agendaframe`, `\ personframe`,
`\ finalframe` (between frames)

Lectures `\ lectureBeamer` with
`\ includeonlylecture` (beamer's original
`\ lecture`)

Content `\ alert`, `\ Alert`, `\ example`,
`\ funneldisplay`, `\ showResults`, colours
`digital_...`

Between frames `\ literature`, `\ lastslide`

Placing `overdraw` environment, `\ framegrid`

All of them are described in README.md and in the backup slides at the end (`demo_documentation.tex`); the following slides demonstrate them.

- **important content** is highlighted with `\alert{...}`
- **less important content** is highlighted with `\Alert{...}`
- The MUL display font (Funnel Display) is switched on with `\funneldisplay`; it is used for the frame titles
- the text is set in Latin Modern Sans; class option `brandFont` switches to Host Grotesk, the MUL text font
- mathematics works as usual: $a^2 + b^2 = c^2$, $\sin \alpha = \frac{b}{c}$

A block

Standard beamer block in the MUL colours.

Blocks and columns



A block

Standard beamer block in the MUL colours.

An alert block

For warnings and important statements.

Blocks and columns



A block

Standard beamer block in the MUL colours.

An alert block

For warnings and important statements.

A block

Standard beamer block in the MUL colours.

An alert block

For warnings and important statements.

An example block

For examples.

A block

Standard beamer block in the MUL colours.

An alert block

For warnings and important statements.

An example block

For examples.

A block without title.

The brand colours are defined with the names of the MUL style guide (also used by the poster template):

Use them as usual, e.g. `\textcolor{digital_Turquoise}{...}`.

The brand colours are defined with the names of the MUL style guide (also used by the poster template):

primary

`digital_Turquoise`

`digital_GraphiteBlack`

`digital_LightGreen`

`digital_TechGreen`

`digital_White`

Use them as usual, e.g. `\textcolor{digital_Turquoise}{...}`.

The brand colours are defined with the names of the MUL style guide (also used by the poster template):

primary

<code>digital_Turquoise</code>
<code>digital_GraphiteBlack</code>
<code>digital_LightGreen</code>
<code>digital_TechGreen</code>
<code>digital_White</code>

combination (with a primary colour)

<code>digital_BTLight</code>
<code>digital_BTDark</code>
<code>digital_TGLight</code>
<code>digital_TGDark</code>
<code>digital_GWLight</code>
<code>digital_GWDark</code>

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secondary (study areas only)

<code>digital_Violet</code>
<code>digital_Orange</code>
<code>digital_Blue</code>

Use them as usual, e.g. `\textcolor{digital_Turquoise}{...}`.

By default, list items are uncovered one by one ($\langle + - \rangle$ is the class default):

- first level items have squares

Use `\begin{itemize}[\langle 1 - \rangle]` to show all items at once:

- all
- at
- once

By default, list items are uncovered one by one ($\langle + - \rangle$ is the class default):

- first level items have squares
 - lower levels have dashes

Use `\begin{itemize}[\langle 1 - \rangle]` to show all items at once:

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- at
- once

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- first level items have squares
 - lower levels have dashes



Example: examples are marked with `\example` instead of `\item`

Use `\begin{itemize}[<1->]` to show all items at once:

- all
- at
- once

By default, list items are uncovered one by one (`<+>` is the class default):

- first level items have squares
 - lower levels have dashes

 *Example:* examples are marked with `\example` instead of `\item`

- last item

Use `\begin{itemize}[<1->]` to show all items at once:

- all
- at
- once

- `\only<2>{...}`: content exists on slide 2 only (takes no space otherwise)
- `\uncover<3->{...}`: space for the content is always reserved, the content is shown from slide 3 on

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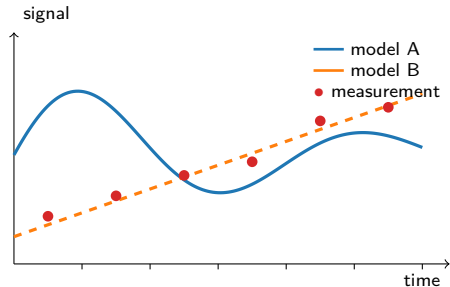
This text is shown with `\only<2>`.

- `\only<2>{...}`: content exists on slide 2 only (takes no space otherwise)
- `\uncover<3->{...}`: space for the content is always reserved, the content is shown from slide 3 on

This text is shown with `\uncover<3->`.

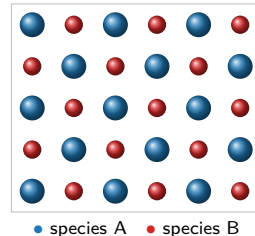
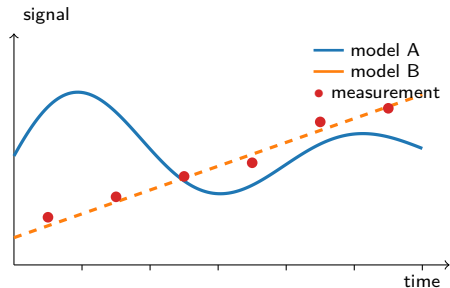
- figures are kept in the folder `figs`, graphics (logos, background) in `graphics`
- images are included with `\includegraphics{figs/...}`; these demo figures are TikZ drawings included with `\input`
- `\literature{...}` (outside a frame) prints references above the footer of this and all following slides; clear it with `\literature{}`

A. Author, B. Author, and C. Author, *J. Example Sci.* **1**, 1 (2026)
D. Author and E. Author, *Example Lett.* **2**, 100 (2025)



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- the `overdraw` environment is a TikZ picture with absolute coordinates: one unit is $1/16$ of the slide width, the origin is the bottom-left corner of the slide (right of the sidebar, if shown)
- `\framegrid` inside `overdraw` draws the coordinate grid for finding positions – remove it in the final version
- steps: grid (slide 2), grid with label and arrow placed with `overdraw` (slide 3), final result (slide 4)

Placing objects with overdraw

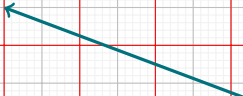


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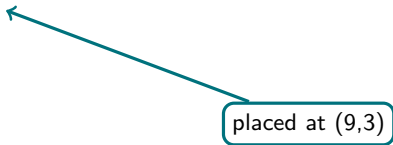


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placed at (9,3)

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- `\framegrid` inside `overdraw` draws the coordinate grid for finding positions – remove it in the final version
- steps: grid (slide 2), grid with label and arrow placed with `overdraw` (slide 3), final result (slide 4)



- `\showResults{...}` shows its content with the class option `showResults` (default), and leaves an empty space of the same size with `hideResults`
- independent of the beamer mode: in the presentation (default) as well as with the beamer class options `trans` or `handout` (one page per frame, without overlays, e.g. for printing), only `showResults`/`hideResults` decide
- handouts of exercises without results: `\documentclass[trans, hideResults]{mul-beamer}`

Exercise

Solve $x^2 - 5x + 6 = 0$.

Result: $x_1 = 2$, $x_2 = 3$

- the logo in the top-right corner can be changed with `\setFrameLogo{graphics/...}`
- here: the logo of the Department of Materials Science

- `\agendaframe` (between frames) shows the table of contents (sections only) in the *Agenda* layout of the MUL PowerPoint master, see the second slide
- `\agendaframe[<title>]` replaces the title (default: *Outline*);
`\setAgendaTitle{<title>}` (in the preamble) changes the default

- `\personframe[<photo>]{<name>}{<role>}{<text>}` (between frames) introduces a person, as in the *Zur Person* layout of the MUL PowerPoint master
- the photo fills the left part of the slide (cropped as needed); without `<photo>`, a placeholder is shown (next slide)
- `<text>` can contain lists, e.g. a short CV

Name Surname

Function, Department of Materials Science

- since 2020: current position
- 2015–2020: previous position
- research interests: topic A, topic B

- `\finalframe` (between frames) adds a closing slide in the dark style of the MUL slides – see the end of `talk.tex`: “Thank you for your attention!” (localised), for talks the title and the authors, the e-mail address (`\email`), the website (`\website`, default `unileoben.ac.at`), an optional QR code (`\setQRcode`), and the claim and author line in the footer
- `\finalframe[...]` replaces the text, e.g. `\finalframe[Questions?]`
- `\setDarkBackground{graphics/background_dark.jpg}` (in the preamble) uses the background of the official PowerPoint master instead of the CMS variant
- the class option `darkTitle` gives a title slide in the same dark style

Thank you for your attention!

**Title of the talk which can span over more
lines**

First Author, Second Author and Last Author

name.surname@unileoben.ac.at
unileoben.ac.at

unileoben.ac.at



Backup slide



- slides after `\lastslide` are not counted in the total number of slides

Backup slide



- slides after `\lastslide` are not counted in the total number of slides
- useful for backup slides

Documentation: class options (1/2)



Footer (* default)

`defaultFootings*`

slogan, author | organisational unit (`\institute[...]`), slide number

`fullFootings`

slogan, author: short title, conference (lecture mode: current section/subsection), date, slide number

`lectureFootings`

slogan, lecture name (`\lecture{...}`), slide number

`emptyFootings`

slide number only

Slide numbers

`slideSingleNumber*`

current slide number

`slideTotalNumber`

current/total; the total counts up to `\lastslide`

Sidebar

`showSidebar*`, `hideSidebar`

sidebar with the table of contents, or none

`showothersubsections*`,

subsections of all sections, or of the current section only, in the sidebar

`hideothersubsections`

Title slide

`lightTitle*`

light background, turquoise title, grey claim

`darkTitle`

dark background (`\setDarkBackground`), white logo and text, claim in Light-Green

Documentation: class options (2/2)



Language (* default)

`DElocalization*`,
`ENlocalization`

German or English logo, claim, and texts (closing slide, agenda title)

`DElogo`, `ENlogo`

title logo only (overrides the localization)

`DEslogan`, `ENslogan`

claim only (overrides the localization)

Text font

`classicFont*`

Latin Modern Sans for text, and letters, digits, operator names in formulas

`brandFont`

Host Grotesk (MUL brand font, `fonts/Host_Grotesk/`); fallbacks: installed Host Grotesk, Calibri, Carlito, Latin Modern Sans

Results

`showResults*`, `hideResults`

content of `\showResults{...}` shown, or replaced by empty space; independent of the beamer mode

Other options

e.g. `trans`, `handout`

passed to beamer (one page per frame, without overlays); the font size (10pt), top-aligned frames, and the aspect ratio 16:9 are fixed

Example

```
\documentclass[ENlocalization, DElogo, DEslogan, hideSidebar]{mul-beamer}
```

- `\title[<short title>]{<title>}`, `\author[<short authors>]{<authors>}`, `\date{<date>}` – short versions for the footer (`fullFootings`, closing slide)
- `\aff{<n>}` – affiliation number (superscript) in `\author` and `\institute`; omitted in the PDF metadata and on the closing slide
- `\institute[<unit for the footer>]{<affiliations>}` – give [...] for multi-line affiliations (otherwise the full text appears in `defaultFootings`)
- `\email{<address>}` – on the title slide and the closing slide (as a link)
- `\conference{<name>}` – talk: on the title slide and in `fullFootings`
- `\lecture{<name>}` – lecture mode: table of contents at each section, name in `lectureFootings`, current section in `fullFootings`; the name is not shown on the title slide (put it into `\title`)
- `\additionsToTitlePage{<TikZ nodes>}` – e.g. partner logos:

Example

```
\additionsToTitlePage{\node[anchor=north west, shift={{(0.04\paperheight,
-0.04\paperheight)}} at (current page.north west)
{\includegraphics[width=0.084\paperwidth]{graphics/logo-partner.pdf}}};
```

- `\ setFrameLogo{<file>}` – logo in the frame titles (in a group `{...}` around frames: these frames only)
- `\ setTitleLogo{<logo>}{<white logo>}` – logo of the title slide and of the dark slides
- `\ setSlogan{<text>}` – claim on the title slide, in the footer, and on the closing slide; `\ setSlogan{}` removes it
- `\ setThanksText{<text>}` – default text of `\ finalframe`
- `\ setAgendaTitle{<title>}` – default title of `\ agendaframe` (Inhalt/Outline)
- `\ setDarkBackground{<file>}` – background of the dark slides: `graphics/background_dark cms.jpg` (default) or `graphics/background_dark.jpg` (PowerPoint master)
- `\ website[<url>]{<text>}` – website on the closing slide (default `unileoben.ac.at`; `<url>` defaults to `https://<text>`; `\ website{}` removes it)
- `\ setQRcode[<caption>]{<image file>}` – QR code on the closing slide, e.g. linking to the group website or a paper; create static QR codes e.g. at `https://www.tu-chemnitz.de/urz/apps/qrcode/index.html.en` (PNG, or SVG converted by `make`)

- `\agendaframe[<title>]` – table of contents (sections only), *Agenda* layout of the PowerPoint master
- `\personframe[<photo>]{<name>}{<role>}{<text>}` – *Zur Person* layout: photo on the left (placeholder without `<photo>`), name, role, and text (may contain lists)
- `\finalframe[<text>]` – closing slide: text, title and authors (talks), e-mail, website, QR code, claim and author line

Example

```
\agendaframe
\personframe[figs/photo.jpg]{Name Surname}{Function}{Short CV}
\finalframe[Questions?]
```

- `\alert{...}` – important content (red); `\Alert{...}` – less important content (turquoise)
- `\example` – instead of `\item`: item marked with a stop sign and *Example*:
- `\funneldisplay` – switches to the display font Funnel Display (used for titles and the claim)
- `\showResults{...}` – content shown with `showResults`, empty space with `hideResults`
- lists are uncovered item by item by default (`<+>`); `\begin{itemize}[<1->]` shows all items at once
- colours of the style guide: `digital_Turquoise`, `digital_GraphiteBlack`, `digital_LightGreen`, `digital_TechGreen`, `digital_White`; combination colours `digital_BTLight`, ..., `digital_GWDark`; secondary colours `digital_Violet`, `digital_Orange`, `digital_Blue` (study areas only); for figures `plotblue`, `plotgreen`, `plotorange`, `plotred`, `plotpurple`, `plotbrown`

- `\literature{<references>}` – references above the footer of all following slides; `\literature{}` clears them
- `\lastslide` – the total number of slides (`slideTotalNumber`) counts only up to here (backup slides)
- `\lectureBeamer[<short>]{<title>}{<label>}` with `\includeonlylecture{<label>}` – beamer's original `\lecture`: several lectures in one file, only the selected one is compiled
- `overdraw` environment – TikZ picture with absolute coordinates (unit 1/16 of the slide width, origin bottom left, right of the sidebar); `\framegrid` inside it shows the grid:

Example

```
\begin{overdraw}
  \framegrid    % remove in the final version
  \node[draw=digital_Turquoise] (a) at (9,3) {label};
  \draw[->, digital_Turquoise] (a) -- (5,4.5);
\end{overdraw}
```