

ON THE MABEAMER THEME

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MAKING IT LIGHTER

The main goal of this project is to provide a theme that does not distract from the content.

WHAT WAS DONE

- Got rid of navigational or structural baggage
- Got rid of ugly itemizations
 - First level: small squares
 - Second level: smaller squares

WHAT NEEDS TO BE DONE

- Uniform syntax for various blocks
- Allow line breaks in `equationblocks`; obviate need for `equationframe`
- Obviate need for `\nosubsections`

MAKING IT MODERN

- Using a modern font helps forgetting that these are Beamer slides
- Not using **standard beamer colors** makes a more professional impression

SECTIONS WITHOUT SUBSECTIONS

Sections without subsections are currently ignored in table of contents unless followed by `\nosubsections`

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THEOREM

There are irrational numbers r, s such that r^s is rational.

In my opinion, math such as $\sqrt{2}^{\sqrt{2}}$ or

$$\sqrt{2}^{\sqrt{2}^{\sqrt{2}}} = \exp(\sqrt{2} \log \sqrt{2}^{\sqrt{2}}) = \exp(\log 2) = 2$$

looks better when typeset in a math font rather than the usual Beamer font



MATHEMATICS

- Important equations can be set in equationblock environments:

$$5^2 \approx 4! = \exp \left(\int x^4 \exp(-x) dx \right)$$

- Long equations are automatically fitted within equationblocks, and can be named; or they can be linebroken and put into equationframe

RADEMACHER'S FORMULA

$$p(n) = \frac{1}{\pi\sqrt{2}} \sum_{k=1}^{\infty} \sqrt{k} A_k(n) \frac{d}{dn} \left(\frac{1}{\sqrt{n - \frac{1}{24}}} \sinh \left[\frac{\pi}{k} \sqrt{\frac{2}{3} \left(n - \frac{1}{24} \right)} \right] \right)$$

ALERTS AND LISTINGS

ALARM, ALARM!

To alert, use `alertblocks`. For code snippets use `lstlisting`

```
1 \begin{alertblock}[Alerts]
2 To alert use \texttt{alertblocks}, for
   code snippets use \texttt{lstlisting}
3 ...
4 \end{alertblock}
```

CITATIONS

One test citation¹ is not as good as two². Zero footnotes³ are better than one.

¹Adams and Fournier 2003.

²Alexanderian et al. 2016.

³which can be created using the footnote command

FOOTNOTES

Footnotes are counted with the same counter as citations. However, there is no point in counting footnotes across the presentation¹

¹Right?

FIGURES

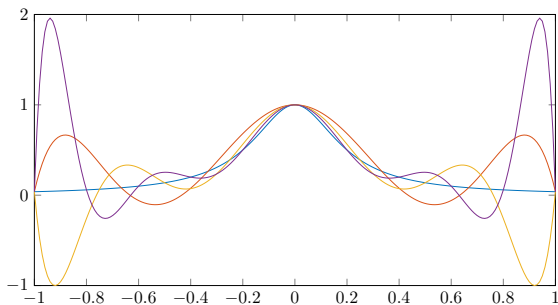


Figure: Runge's function and polynomial approximations. Observe that figures don't need numbering, just as Theorems.

ENUMERATIONS

1. Eins

1.1 Einseins

1.1.1 Einseinseins

ITEMIZATIONS

- Eins
 - Einseins
 - Einseinseins

TABLES

Option	Auswirkung
<code>noflamma</code>	Falls Sie die Schrift Flama nicht besitzen können Sie mit dieser Option auf die Schrift Arial umschalten.
<code>noserifmath</code>	Formeln werden ebenfalls serifenlos gesetzt.
<code>nosectionpages</code>	Die Sektionseinleitungsseiten werden ausgeblendet.

Table: Not everyone understands German

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ADDITIONAL COMMANDS

- Call package as

```
1 \usepackage[displaysection]{mabeamer}
```

to display section name on each frame



Using `lstlisting` (as in the gray box above) within an `itemize` environment requires `\begin{frame}[fragile]` and requires using no indent in the text (otherwise will get leading white-space)

- For remarks, use `remarkblocks`:

PYTHAGORAS

$$a^2 + b^2 = c^2$$

(Extension to general triangles are possible, but are beyond scope of this presentation)