

SFU

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# SFUBeamer: a PDF $\text{\LaTeX}$ -based beamer template for the SFU community

A spin-off of the OsloMet template

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July 14, 2023



Photo: David Herrera (2008)

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# Mathematics


## Theorem (Fermat's little theorem)

*For a prime  $p$  and  $a \in \mathbb{Z}$  it holds that  $a^p \equiv a \pmod{p}$ .*

## Proof.

The invertible elements in a field form a group under multiplication. In particular, the elements

$$1, 2, \dots, p-1 \in \mathbb{Z}_p$$

form a group under multiplication modulo  $p$ . This is a group of order  $p-1$ . For  $a \in \mathbb{Z}_p$  and  $a \neq 0$  we thus get  $a^{p-1} = 1 \in \mathbb{Z}_p$ . The claim follows. 

# Mathematics

## Example

The function  $\varphi: \mathbb{R} \rightarrow \mathbb{R}$  given by  $\varphi(x) = 2x$  is continuous at the point  $x = \alpha$ , because if  $\epsilon > 0$  and  $x \in \mathbb{R}$  is such that  $|x - \alpha| < \delta = \frac{\epsilon}{2}$ , then

$$|\varphi(x) - \varphi(\alpha)| = 2|x - \alpha| < 2\delta = \epsilon.$$

*Up Next* | **Highlighting**

# Highlighting

Sometimes it is useful to **highlight** certain words in the text.

## Important message

If a lot of text should be **highlighted**, it is a good idea to put it in a box.

You can also highlight with the **structure colour**.

# Lists

- Bullet lists are marked with a dark red box.
- 1 Numbered lists are marked with a black number inside a dark red box.

Description highlights important words with gray text.

Items in numbered lists like 1 can be referenced with a dark red box.

## Example

- Lists change colour after the environment.

This is a good point to remind your audience what they have seen so far.

- Item 1.
- Item 2.
- Item 3.

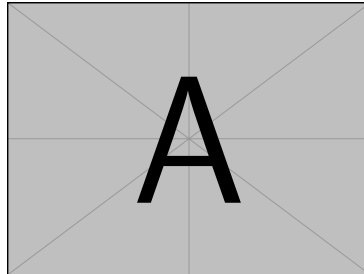
*Up Next* | **Effects (longer titles  
work best)**



# Effects

## 1 Effects that control

Use textblock for arbitrary placement of objects.



# Effects

- 1 Effects that control
- 2 when text is displayed

Use **textblock** for arbitrary placement of objects.

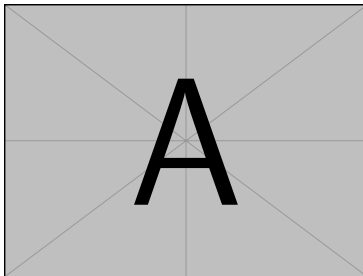
## Theorem

*This theorem is only visible on slide number 2.*

# Effects

Use **textblock** for arbitrary placement of objects.

- 1 Effects that control
- 2 when text is displayed
- 3 are specified with `<>` and a list of slides.



# Effects

- 1 Effects that control
- 2 when text is displayed
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Use **textblock** for arbitrary placement of objects.







# Effects

- 1 Effects that control
- 2 when text is displayed
- 3 are specified with `<>` and a list of slides.

Use **textblock** for arbitrary placement of objects.

It creates a box with the specified width (here in a percentage of the slide's width) and upper left corner at the specified coordinate (x, y) (here x is a percentage of width and y a percentage of height).

# References

-  **Y. Colin de Vèrdiere.** Spectral theory of pseudo-differential operators of degree 0 and application to forced linear waves. *Anal. PDE* 13 (2020), no. 5, 1521–1537
-  **Y. Colin de Vèrdiere & L. Saint-Raymond.** Attractors for two dimensional waves with homogeneous Hamiltonians of degree 0. *Commun. Pure Appl. Anal.* 73 (2020), no. 2, 421–462.
-  **G. Davis, T. Jamin, J. Deleuze, S. Joubaud & T. Dauxois.** Succession of resonances to achieve internal wave turbulence. *Phys. Rev. Lett* 124 (2020), 204502.
-  **S. Dyatlov & M. Zworski.** Microlocal analysis of forced waves. *Pure Appl. Anal.* 1 (2019), 359–384.
-  **J. Galkowski & M. Zworski.** Viscosity limits for 0th order pseudo-differential operators. arXiv:1912.09840 (December 2019).
-  **L.R.M. Maas.** Wave attractors: linear yet nonlinear. *Int. J. Bifurcat. Chaos* 15 (2005), no. 9, 2757–2782.

**Thank you!**