how to use beamer

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 $March\ 29,\ 2024$

hello

block

This environment is block

alertblock

This environment is alertblock

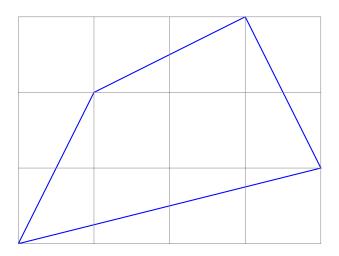
example block

This environment is example block

mathematical formula

$$\frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} e^{-\frac{x^2}{2}} dx$$

tikz



commutative diagram

five lemma

$$M_1 \xrightarrow{f_1} M_2 \xrightarrow{f_2} M_3 \xrightarrow{f_3} M_4 \xrightarrow{f_4} M_5$$

$$\downarrow h_1 \qquad \downarrow h_2 \qquad \downarrow h_3 \qquad \downarrow h_4 \qquad \downarrow h_5$$

$$N_1 \xrightarrow{g_1} N_2 \xrightarrow{g_2} N_3 \xrightarrow{g_3} N_4 \xrightarrow{g_4} N_5$$

- (1) h_1 : surjection, h_2, h_4 : injection $\implies h_3$: injection
- (2) h_5 : surjection, h_2, h_4 : surjection $\Longrightarrow h_3$: surjection
- (3) h_1, h_2, h_4, h_5 : bijection $\Longrightarrow h_3$: bijection

five lemma

$$\begin{array}{c} M_1 \stackrel{f_1}{\longrightarrow} M_2 \stackrel{f_2}{\longrightarrow} M_3 \stackrel{f_3}{\longrightarrow} M_4 \stackrel{f_4}{\longrightarrow} M_5 \\ \downarrow^{h_1} & \downarrow^{h_2} & \downarrow^{h_3} & \downarrow^{h_4} & \downarrow^{h_5} \\ N_1 \stackrel{g_1}{\longrightarrow} N_2 \stackrel{g_2}{\longrightarrow} N_3 \stackrel{g_3}{\longrightarrow} N_4 \stackrel{g_4}{\longrightarrow} N_5 \end{array}$$

Let x be an element of ker h_3 . If x = 0, then h_3 is injective.

snake lemma