Template document

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-being-constantly-updated-

Abstrakt

K balíčkům: babel s parametrem czech rovnou zavádí i česká jména pro oddíly jako např. Abstrakt, Obsah, atd. Taky přibyde příkaz \uv{·} vytvářející české uvozovky: „Ahoj.“

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Obsah

0.1 This is a section

0.1.1 This is a subsection

This is a subsubsection

This is a paragraph

This is a subparagraph

This is a section*

This is a subsection*

This is a subsubsection*

This is a paragraph*

This is a subparagraph*

Fonts and formats

Paper formats and font sizes

We usually define the paper size and the font size inside the square brackets []. The point size can be described in the way [10pt]. The other font sizes are 8pt, 9pt, 10pt, 11pt, 12pt, 14pt, 17pt, 20pt. The default font size for Latex is 10pt.

Paper types with their dimesions:

- letterpaper (11 x 8.5 in)
- legalpaper (14 x 8.5 in)
- a5paper (5.8 x 8.3 in)
- a4paper (8.3 x 11.7 in)
- executivepaper (10.5 x 7.25 in)
- b5paper (25 x 17.6 cm)

Types of sizes:

- **{\tiny}:** hello
- **{\scriptsize}:** hello
- **{\footnotesize}:** hello
- **{\small}:** hello
- **{\normalsize}:** hello
- **{\large}:** hello
- **{\Large}:** hello
- **{\LARGE}:** hello
- **{\huge}:** hello

Example:

The LaTeX Technical Institute

Certification

This to certify that Mr. R.P Sharma has undergone a course in this institute and is qualified to be Technical Expert.

The Director
The LaTeX Technical Institute

Font styles

The styles are categorized into family, series, and shape. The typestyle in the output is composed of these three characteristics.

The table for the styles is given below:

- Roman
- `Typewriter`
- Sans serif

The table for the series is given below:

- **boldface**
- medium

The table for the shape is given below:

- *italic*
- *slanted*
- upright
- SMALL CAP

Example 1: ***the topic discussed is Latex.*** *it contains the process and characteristics*

Example 2: ***the topic discussed is Latex.***
it contains the process and characteristics

Comment: **\emph{}** Causes the paramater word to switch to italic when used in the middle of a straight text and vice versa.

Example 3: *a figure with six sides is called* hexagon *and with five sides is called* pentagon.

Example 4: **a figure with six sides is called *hexagon* and with five sides is called *pentagon.***

Document formatting

\noindent causes any applied indentation to go away for the next line
\flushright (\flushleft) switches the indentation to the passed side

Text color

Každý slovo jinak pomocí \textcolor{·}

Color box

Základní colorbox, pohodka lahodka, ale bez rounded corners. :(

V dokumentu s červenými referencemi, barva pink!75!white
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T
E_k

Kinetická energie systému o hmotnosti m a rychlosti $\boldsymbol{v}$ je definována coby práce, kterou je potřeba vykonat, abychom systém urychlili z klidu na rychlost $\boldsymbol{v}$ a je vždy dána vztahem

$$T := W(0 \to \boldsymbol{v}) = \frac{1}{2} m \|\boldsymbol{v}\|^2 = \frac{1}{2} m v^2.$$

Kinetickou energii můžeme také značit E_k či A.

Basic syntax

Some typesetting

WHEN you append an asterisk (*) to the end of the environment's name, you allow yourself to align the environment by the symbol you highlight by ampersand (&). That's not true. Adding an asterisk to an environment's name means that you don't want that part to be enumerated

This is some example text[1] ((((((

$$
\begin{aligned}
f(x) &= x^2 + 3x + 2, \\
f(x) &= x^2 + 3x + 2, \\
f(x) &= x^2 + 3x + 2, \\
f(x) &= x^2 + 3x + 2, \\
f(x) &= x^2 + 3x + 2, \\
f(x) &= x^2 + 3x + 2, \\
f(x) &= x^2 + 3x + 2, \\
f(x) &= x^2 + 3x + 2.
\end{aligned}
$$

Combining text and math

Měřením jsme zjistili hodnotu měrného náboje elektronu

$$\frac{e}{m_e} = (1.7 \pm 0.21) \cdot 10^{11} \ \frac{\mathrm{C}}{\mathrm{kg}},$$

kde hodnota za znakem ± udává nejistotu měření určenou metodou redukce.
Tabulková hodnota měrného náboje elektronu je

$$\frac{e}{m_e} = (1.75882012 \pm 0.00000015) \cdot 10^{11} \ \frac{\mathrm{C}}{\mathrm{kg}},$$

odchylka naměřených hodnot od hodnot tabulkových tak činí 3,78 %. Nesrovnalosti s tabulkovými hodnotami byly nejspíše způsobeny nepřesnostmi námi provedeného měření.

The delta-epsilon definition of limit

$$\forall \epsilon > 0 \ \exists \delta > 0 \ \forall x \in \mathbb{R} : |x - x_0| < \delta \implies |f(x) - f(x_0)| < \epsilon.$$

[1] Hello footnote

Hyperref

Used for referencing to an equation. Get some hello 1

$$Z = \frac{1}{(2\pi\hbar)^6} \int_{\mathbb{R}^6} e^{-\beta \mathcal{H}(\boldsymbol{x},\boldsymbol{p})} \, \mathrm{d}\boldsymbol{x} \, \mathrm{d}\boldsymbol{p}. \tag{kuchevnik}$$

Co kurva za jméno je (kuchevnik)?
Na (kuchevnik) můžu clicknout odkudkoliv.
Tyvole vždyť (Géčko) je Gaussův integrální zákon.

Random theorem

Theorem 0.1.1 (Chain rule)**.** *Let g be a function that is differentiable at a point c (i.e. the derivative $g'(c)$ exists) and f is a function that is differentiable at $g(c)$, then the composite function $f \circ g$ is differentiable at c, and the derivative is*

$$(f \circ g)'(c) = f'(g(c)) \cdot g'(c). \tag{1}$$

Proof. Proof being fucking straightforward, we just do it directly:

$$\begin{aligned}(f \circ g)'(c) &= \lim_{x \to c} \frac{f(g(x)) - f(g(c))}{x - c} = \lim_{x \to c} \frac{f(g(x)) - f(g(c))}{g(x) - g(c)} \cdot \frac{g(x) - g(c)}{x - c} = \\ &= \lim_{g(x) \to g(c)} \frac{f(g(x)) - f(g(c))}{g(x) - g(c)} \cdot \lim_{x \to c} \frac{g(x) - g(c)}{x - c} = f'(g(c)) \cdot g'(c),\end{aligned}$$

where in the prelast equation, we've considered the fact that the function is *differentiable at c*, thus is *continuous at c*. Therefore $x \to c$ iff $g(x) \to g(c)$. □

Math typesetting

We don't use '$\times$' very much. 'Tis usually better not to write anything or '$\cdot$' in a product.

$$\pi \approx 3.14, \tag{2}$$

$$f(x) = \frac{x_0^{i+1}}{\sqrt[a]{\arctan(\omega t)}}, \tag{3}$$

$$F(x) = \int_a^b e^x \,\mathrm{d}x = e^x|_a^b = e^b - e^a, \tag{4}$$

$$g(n) = \begin{cases} n/2, & \text{pokud } n \text{ je liché} \\ n/2 - 1, & \text{pokud } n \text{ je sudé} \end{cases}, \tag{5}$$

$$\binom{n}{k} = \frac{n!}{(n-k)!\,k!}, \tag{6}$$

$$\sum_{n=0}^{\infty} \frac{z^n}{n!} = e^z; \text{ kde } z \in \mathbb{C},\ n \notin \mathbb{C},\ n \in \mathbb{R}, \tag{7}$$

$$\prod_{i=1}^{N} x_i = x_1 \cdot x_2 \cdot x_3 \cdot \ \ldots \ \cdot x_N, \tag{8}$$

$$R_i{}^j{}_{kl} = g^{jm} R_{imkl} = -g^{jm} R_{mikl} = -R^j{}_{ikl}, \tag{9}$$

$$\lim_{x\to\infty} \left(1 + \frac{a}{x}\right)^x = e^a, \tag{10}$$

$$\boxed{\int_V \operatorname{div} \boldsymbol{F}\, \mathrm{d}V = \int_{S=\partial(V)} \boldsymbol{F} \cdot \mathrm{d}\boldsymbol{S},} \tag{Géčko}$$

$$\mathbb{R} \subset \mathbb{C}, \tag{11}$$

$$\mathbb{A} = \mathbb{B} \Leftrightarrow \mathbb{A} \subseteq \mathbb{B} \ \wedge \ \mathbb{A} \supseteq \mathbb{B}, \tag{12}$$

$$\|f\| = \inf\{K \in \langle 0, +\infty) : |f(x)| \leq K\|x\|,\, \forall x \in \mathbb{X}\}. \tag{13}$$

$$a \Longrightarrow b \tag{14}$$

0.1.2 Random Hermitian adjoint

$$\begin{pmatrix} v_1 \\ v_2 \\ \vdots \\ v_n \end{pmatrix}^{\dagger} \coloneqq (v_1^*, v_2^*, \ldots, v_n^*) \tag{15}$$

0.1.3 Simulace Newtonových rovnic

Na začátku máme

$$\boldsymbol{F}(t) = \frac{\mathrm{d}\boldsymbol{p}}{\mathrm{d}t}(t) = \lim_{\delta t\to 0} \frac{m(t+\delta t) - m(t)}{\delta t} \boldsymbol{v}(t) + m(t) \lim_{\delta t\to 0} \frac{\boldsymbol{v}(t+\delta t) - \boldsymbol{v}(t)}{\delta t},$$

$$\boldsymbol{v}(t) = \lim_{\delta t\to 0} \frac{\boldsymbol{x}(t+\delta t) - \boldsymbol{x}(t)}{\delta t}.$$

Teď provedu diferenci $\boldsymbol{x}_n = \boldsymbol{x}(t_n)$

$$\boldsymbol{x}(t+\delta t) = \boldsymbol{x}(t) + \boldsymbol{v}(t)\delta t, \qquad \boldsymbol{x}_{n+1} = \boldsymbol{x}_n + \boldsymbol{v}_n\delta t,$$
$$\boldsymbol{v}(t+\delta t) = \boldsymbol{v}(t) + \frac{\boldsymbol{F}(t)}{m}\delta t, \qquad \boldsymbol{v}_{n+1} = \boldsymbol{v}_n + \frac{\boldsymbol{F}_n}{m}\delta t.$$

Amsthm

Theorem 0.1.2. *Let f be a function whose derivative exists in every point, then f is a continuous function.*

Theorem 0.1.3 (Pythagorean theorem)**.** *This is a theorem about right triangles and can be summarised in the next equation*

$$x^2 + y^2 = z^2$$

And a consequence of theorem 0.1.3 is the statement in the next corollary.

Corollary 0.1.3.1. *There's no right rectangle whose sides measure 3cm, 4cm, and 6cm.*

You can reference theorems such as 0.1.3 when a label is assigned.

Lemma 0.1.4. *Given two line segments whose lengths are a and b respectively there is a real number r such that $b = ra$.*

Unnumbered theorem-like environments are also posible.

Remark. This statement is true, I guess.

And the next is a somewhat informal definition

Definition 0.1.1. Fibration A fibration is a mapping between two topological spaces that has the homotopy lifting property for every space X.

Lemma 0.1.5. *Given two line segments whose lengths are a and b respectively there is a real number r such that $b = ra$.*

Důkaz. To prove it by contradiction try and assume that the statement is false, proceed from there and at some point you will arrive to a contradiction. □

Environments

Let's try some of the enviroments...

itemize

Itemize enviroment is used to list items.

- Zdroj pro napájení Helmholtzových cívek
- Regulátor napětí
- Omezovač proudu
- Ampérmetr pro měření proudu Helmholtzovými cívkami; $\Delta \mathrm{I} = 0,001$ A
- Helmholtzovy cívky
- Baňka naplněná argonem s elektronovou tryskou
- Zdroj nízkého napětí pro napájení elektronové trysky
- Potenciometr pro nastavení mřížkového napětí $0 - 50$ V; $\Delta \mathrm{U} = 0,1$ V
- Potenciometr pro nastavení anodového napětí $0 - 300$ V; $\Delta \mathrm{U} = 0,1$ V
- Výstup $6,3$ V pro žhavení katody
- Voltmetr pro určení urychlovacího napětí

enumerate environment

Enumerate environment is used the same way itemize is, but is enumerated.

1. Před zapnutím napájecího zdroje elektronové trysky musí být potenciometry nastaveny na minimální (nulovou) hodnotu.
2. Po zapnutí napájecího zdroje je třeba nechat katodu elektronové trysky cca 2 minuty žhavit, než začneme zvyšovat urychlovací napětí. Tím se šetří životnost katody elektronové trysky.
3. Pro různá urychlovací napětí U (experiment dobře funguje pro napětí větší než cca 100 V) najdeme takové proudy Helmholtzovými cívkami (a tedy magnetickou indukci), kdy elektrony dopadají na luminiscenční příčky, tj., kdy lze určit cyklotronový poloměr jejich trajektorií.
4. Pro jednotlivé kombinace nastavených a naměřených hodnot vypočteme měrný náboj elektronu. Z vypočtených hodnot určíme aritmetický průměr a nejistotu měření metodou redukce.
5. Poté, co doměříme, nastavíme potenciometry zdroje anodového a mřížkového napětí na minimum – šetříme tím životnost katody elektronové trysky.

enumitem package allows for further customization of enumerate enviroment, such as

(a) an apple

(b) a banana

(c) a carrot

(d) a durian

(A) an apple

(B) a banana

(C) a carrot

(D) a durian

(i) an apple

(ii) a banana

(iii) a carrot

(iv) a durian

multicol

Two column enumerate

a) item 1

b) item 2

c) item 3

d) item 4

e) item 5

f) item 6

Two column itemize

- item 1
- item 2
- item 3
- item 4
- item 5
- item 6

tabular environment

Tabular environment is used when creating tables.

#	U [V]	$2R_c$ [cm]	I [A]	B [mT]	e/me [C/kg]
1	191	4	3.54	2.45	$1.591 \cdot 10^{11}$
2	191	6	2.31	1.6	$1.658 \cdot 10^{11}$
3	191	8	1.7	1.18	$1.715 \cdot 10^{11}$
4	191	10	1.36	0.94	$1.729 \cdot 10^{11}$
5	153	4	3.12	2.16	$1.64 \cdot 10^{11}$
6	153	6	2	1.38	$1.785 \cdot 10^{11}$
7	153	8	1.5	1.04	$1.768 \cdot 10^{11}$
8	153	10	1.18	0.82	$1.82 \cdot 10^{11}$
9	230	4	3.87	2.68	$1.601 \cdot 10^{11}$
10	230	6	2.54	1.76	$1.65 \cdot 10^{11}$
11	230	8	1.9	1.32	$1.65 \cdot 10^{11}$
12	230	10	1.5	1.04	$1.701 \cdot 10^{11}$

equation environment

Equation environment doesn't support laying down more equations under themselves (fucking useless, align is always better).

$$1 + 2 = 3. \tag{16}$$

$$1 = 3 - 2.$$

$$x^2 = 4. \tag{17}$$

$$x = \pm 2 \Leftrightarrow |x| = 2.$$

align environment

Align environment supports laying down more equations and even aligning them by the highlighted symbol.

$$\begin{aligned} 1 + 2 &= 3, \\ 1 &= 3 - 2. \end{aligned}$$

$$\begin{aligned} x^2 &= 4, \\ x &= \pm 2 \Leftrightarrow |x| = 2. \end{aligned}$$

subequations environment

Pretty selfexplanatory

$$\varphi = \varphi' + \frac{1}{4\pi\epsilon_0}\frac{q}{r} = \frac{q}{4\pi\epsilon_0 R}\left(\frac{1}{|\alpha \boldsymbol{r_0} - 1/\beta \boldsymbol{r_{0q}}|} - \frac{\beta}{|\alpha \boldsymbol{r_0} - \beta \boldsymbol{r_q}|} + \frac{1}{\alpha}\right), \tag{18a}$$

$$Z = -\text{fujky fuj} + \textit{komiko}. \tag{18b}$$

matrix environment

Matrix environment itself doesn't include anything except for the formatting.

$$\begin{matrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{matrix} = \begin{matrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{matrix}$$

pmatrix environment

Matrix with parentheses.

$$\begin{pmatrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{pmatrix} = \begin{pmatrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{pmatrix}$$

bmatrix environment

Matrix with brackets.

$$\begin{bmatrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{bmatrix} = \begin{bmatrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{bmatrix}$$

Bmatrix environment

Matrix with braces.

$$\begin{Bmatrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{Bmatrix} = \begin{Bmatrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{Bmatrix}$$

vmatrix environment

Matrix with vertical delimeters.

$$\begin{vmatrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{vmatrix} = \begin{vmatrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{vmatrix}$$

Vmatrix environment

Matrix with double vertical delimeters.

$$\begin{Vmatrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{Vmatrix} = \begin{Vmatrix} 12 & -4 & 91 \\ 6 & 999 & -6 \\ -20 & 0 & 10 \end{Vmatrix}$$

Regular text within the math environment

$50 \text{ apples} \times 100 \text{ apples} = \text{loads of apples}^2$
$50 \text{ apples} \times 100 \textbf{ apples} = \textit{loads of apples}^2$

Minipage

Minipage is useful when we need to put things next to each other

Tabular with minipage

Utilizing minipage to put two tables next to each other

Jaxviň nadpis

MC

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

A	B	C
1	2	3
4	5	6

A	B	C
1	2	3
4	5	6

Here we can write shit as wel. For example we can describe the written tables by telling that they look like shit. Or anything else.

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1. Chapter

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Chapwithtoc

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