

Hello Latex!

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1 Getting Started

Hello Latex! Today I am learning L^AT_EX. L^AT_EX is a great program for writing math. I can test Vietnamese language “Hoc vui thôi”.

I can write in line math such as $a^2 + b^2 = c^2$. I can also give equations their own space:

$$\gamma^2 + \phi^2 = \omega^2 \quad (1)$$

“Maxwell’s equations” are named for James Clark Maxwell and are as follow:

$$\vec{\nabla} \cdot \vec{E} = \frac{\rho}{\epsilon_0} \quad Gauss's Law \quad (2)$$

$$\vec{\nabla} \cdot \vec{B} = 0 \quad Gauss's Law for Magnetism \quad (3)$$

Equations 2 and 3 are some of the most important in Physics.

2 What about Matrix Equations?

$$\begin{pmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & \cdots & a_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{n1} & a_{n2} & \cdots & a_{nn} \end{pmatrix} \begin{bmatrix} v_1 \\ v_2 \\ \vdots \\ v_n \end{bmatrix} = \begin{bmatrix} w_1 \\ w_2 \\ \vdots \\ w_n \end{bmatrix}$$

3 Tables and Figures

Creating table is not unlike creating matrix:

Table 1: This is a table that shows how to create different lines as well as different justifications

x	1	2	3
f(x)	4	8	12
f(x)	4	8	123



Figure 1: HCM University of science

4 Bibliography

You will probably want references in your document so that you can cite articles like [1, 2, 3]

References

- [1] M. Frenkel, M. Avellan, and Z. Guo. Temperature sensing of joule heating inside an optical whispering-gallery mode micro-annulus. In *ASME 2012 Heat Transfer Summer Conf. Collocated with the ASME 2012 Fluids Engineering Div. Summer Meeting and the ASME 2012 10th Int. Conf. on Nanochannels, Microchannels and Minichannels, HT 2012*, volume 2, pages 823–826, 2012. Conference Proceedings.
- [2] M. Frenkel, M. Avellan, and Z. Guo. Fine temperature measurement and fabrication of on-chip whispering-gallery mode micro-sensors. In *ASME 2013 4th International Conference on Micro/Nanoscale Heat and Mass Transfer, MNHMT 2013*. American Society of Mechanical Engineers (ASME), 2013. Conference Proceedings.
- [3] M. Frenkel, M. Avellan, and Z. Guo. Optical whispering-gallery mode phenomenon as a composite sensor with applications to direct on-chip thermal sensing. In *ASME 2013 Heat Transfer Summer Conf. Collocated with the ASME 2013 7th Int. Conf. on Energy Sustainability and the ASME 2013 11th Int. Conf. on Fuel Cell Science, Engineering and Technology, HT 2013*, volume 4, 2013. Conference Proceedings.