

Vo Chau Duc Phuong

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BASIC INFORMATION

Given name : Duc Phuong
Family name : Vo Chau
Date of Birth : 24/09/2002
Nationality : Vietnamese
Birthplace : An Giang, Vietnam

EDUCATION

The Abdus Salam International Center for Theoretical Physics (ICTP) <i>Diploma student, pre-PhD course</i> <i>Condensed matter and statistical physics</i>	Trieste, Italy Sep 2024 – Now
University of Science <i>Honours B.Sc. degree in physics; GPA: 8.88/10.0</i> <i>Major in theoretical physics</i>	Ho Chi Minh city, Vietnam Sep 2020 – July 2024
Thoai Ngoc Hau highschool for the gifted <i>Major in physics; GPA: 9.1/10.0</i>	An Giang, Vietnam Sep 2017 – July 2020

RESEARCH EXPERIENCE

Institute of Applied Mechanics and Informatics <i>Internship</i>	Ho Chi Minh city, Vietnam Feb 2023 – July 2024
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- Worked on the “Calculation of Shift Tensor in Transition Metal Dichalcogenide” project under the supervision of [Dr. Huynh Thanh Duc](#). Investigating the shift current induced by optical excitation in two-dimensional transition metal dichalcogenides. Results have been reported in the International Conference on Energy, Infrastructure and Environmental Research ([EIER 2024](#)).
- Worked on my bachelor thesis: “Calculation of The Linear-Absorption Spectrum of An Ideal Two-dimensional System of MoS_2 ”. The findings were presented to the Department of Theoretical Physics at the University of Science in Ho Chi Minh City, Vietnam, receiving a grade of **9.4/10**.

PUBLICATION

Phuong, V. C. D., & Huynh, T. D. (2024). Calculation of shift current tensors in two-dimensional transition metal dichalcogenides. E3S Web of Conferences, 496, 02002–02002. <https://doi.org/10.1051/e3sconf/202449602002>

OTHER ACADEMIC WORKS

Bachelor’s thesis

Calculation of The Linear-Absorption Spectrum of An Ideal Two-dimensional System of MoS_2

Thesis: [🌐GitHub](#)

Abstract: Using Semiconductor Bloch Equations, the Coulomb interaction has been taken into account using the Hatree-Fock approximation. This work confirms that the exciton binding energy in MoS_2 is in agreement with experiments using a model with a minimum number of energy bands.

AWARDS & ACHIEVEMENTS

Top 1st. in Physics majors (both in general and honour program) at the University of Science, National University of Ho Chi Minh city: Achieved the top 1st. rank in the physics class, selected for the honours program in the first year due to outstanding performance in high school. (admission class 2020-2024)

Scholarship For Top Student In The Honours Class: Received an award for being the top student in the honours class each semester. (2020-2023)

2nd Prize in the "National Physics Olympics for College Students": (2022)
Golden Medals in "Traditional 30/04 Olympiad": (Awarded golden medals in both 2018 & 2019)
Odon-Vallet Scholarship: (2018)

REFERENCES

Natasa Stojic

Long-term visitor scientist
LB-301, The Abdus Salam International Center for Theoretical Physics
@ nstojic@ictp.it
Prof. Natasa Stojic is my lecturer in my diploma program at ICTP.

Huynh Thanh Duc

Researcher
Institute of Applied Mechanics and Infomatics, Vietnam Academy of Science and Technology, Vietnam
@ htduc@hcmip.vast.vn
Dr. Huynh Thanh Duc is my supervisor for my works at HCMC INSTITUTE OF PHYSICS and also is my thesis's supervisor (2022-2024).

CODING SKILLS

Beginner: JULIA, MATHEMATICA
Intermediate: FORTRAN, PYTHON, MATLAB, Bash

LANGUAGE SKILLS

Vietnamese: Native
English: Reading and listening: fluently, writing and speaking: good
German: Beginner
Latin: Beginner

ORGANIZATIONS AND VOLUNTEER EXPERIENCE

Organizations

Math and Science Summer Program	<i>July 2023 & July 2024</i>
<i>Headmentor (2024)</i>	<i>Phenikaa University, Hanoi, Vietnam</i>
<i>Mentor (2023)</i>	<i>University of Education, Hanoi, Vietnam</i>
Newton-Einstein-Schrödinger NES academic club	<i>2020-2024</i>
<i>Member</i>	
Physics student Union	<i>2020-2021</i>
<i>President</i>	<i>Ho Chi Minh University of Science</i>

Volunteer

ICTP 60th Anniversary	<i>Trieste, Italy</i>
<i>Member</i>	<i>November 2024</i>
Volunteer Spring	<i>Ho Chi Minh city, Vietnam</i>
<i>Member</i>	<i>2022 & 2023</i>
Green Summer Campaign	<i>University of Science, Ho Chi Minh city, Vietnam</i>
<i>Member</i>	<i>2022 & 2023</i>
Charity Meal	<i>Ho Chi Minh city, Vietnam</i>
<i>Member</i>	<i>2021 & 2023</i>