
VI HO PHONG

PhD Physics

RIKEN Nishina Center

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RESEARCH INTERESTS

My research focuses on experimental studies of β -decay properties of neutron-rich nuclei that are relevant to the astrophysical rapid (r -) neutron capture process. I am also interested in developing detector system, real-time system as well as Monte-Carlo simulation tools for nuclear physics experiments.

EDUCATION

VNU University of Science, Hanoi

December 2014 - December 2020

PhD student
Faculty of Physics

VNU University of Science, Hanoi

September 2011 - April 2014

Master degree in Physics
Faculty of Physics

VNU University of Science, Hanoi

September 2007 - June 2011

B.S degree in Physics
Faculty of Physics

WORK EXPERIENCE

VNU University of Science, Hanoi

2011 - 2014 and 2018-2020

Research and Teaching Assistant

- Operating the University Tandem Pelletron Accelerator and its associated beamlines.
- Teaching undergraduate courses: Experimental nuclear physics laboratory, Accelerators.

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2014 - 2018

PhD internship (IPA)

- Setting up three detector systems: BRIKEN, EURICA, NiGIRI.
- Performing data analysis and initiating physics discussion on the results.

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2021 -

Postdoctoral Researcher

- Studying impacts of the ground state properties (β -decay, masses) on the formation of final r -process abundance pattern.
- Simultaneous measurement of masses and β -decay properties of neutron-rich nuclei using the MRTOF - β -decay combined setup.
- Setting up the active stopper system HI-WAS3ABi to be used for β -decay experiments at RIBF.

SKILLS

Experimental Nuclear Physics
Detectors
Readout system
Software & Tools
Programming

Nuclear astrophysics, structure
Si, HpGe, scintillation
Front-end, DAQ system
CERN ROOT, GEANT4, Qt
C++, python, Visual Basic
PHP-MySQL, HTML, Javascript

PUBLICATIONS

<https://ribf.riken.jp/phong/homepage/publications>

TALKS

<https://ribf.riken.jp/phong/homepage/talks>

AWARDS

2015 RIKEN summer school : Poster award in Physics.

NUSYM 2019 conference: 2nd best oral presentation award from Asian Nuclear Physics Association (ANPhA).