Jan 15th 2018

CURRICULUM VITAE

Nguyen Hoang Nhat Khang

Tel: +82-10-5857-9240
Nationality: Vietnamese
Email: nhnknhatkhang@unist.ac.kr

AFFILIATION

• Graduate student –3rd semester at Combined Master-PhD Program (March 2017 - present)

• Ulsan National Institute of Science & Technology (UNIST)-UNIST-gil 50, Ulsan Metropolitan City, Republic of Korea, 44919.

EDUCATION

• Bachelor of Engineering

  • Major: Nuclear engineering

  • University of Dalat, Dalat, Lam Dong, Vietnam (2012.09~2017.01)

WORK EXPERIENCE

• Computational Reactor Physics and Experiment Lab (UNIST, Ulsan Republic of Korea / Prof. Lee Deokjung) (March 2017 – present)

• Depletion Libraries generation from ENDF B/VII, ENDF VII.1.

• Validation of Monte Carlo Code MCS

  - Depletion analysis for OPR-1000 reactor core

• Depletion chain optimization for multi-purposes.

• OECD NEA Benchmarks for Shielding Modeling.

• Direct Solver for CRAM linear equations based on Gaussian elimination method.

• Depletion sensitivity analysis based on Generalized Perturbation Theory.

• MOC transient for 2D model in STREAM.

RESEARCH INTERESTS

• Reactor Criticality Analysis

• Monte Carlo Simulation - Reactor design

CERTIFICATES

• Computer Skills: MATLAB, PYTHON, FORTRAN

• Nuclear-physics Code: MCNP, UNIST Monte Carlo Code MCS, UNIST Deterministic Code STREAM

• Training (Domestic): Decontamination and Decommissioning by Argonne National Laboratory held in PNU (July 2017).

• Training (International): Research reactor Kyoto University Critical Assembly (KUCA) Experiment, Kyoto University (Osaka, Japan, October, 2017).

INTERNATIONAL AND DOMESTIC CONFERENCES

1. **Khang H.N Nguyen**, Jiwon Choe, Sooyoung Choi, Hyunsuk Lee, Wonkyeong Kim, Matthieu Lemaire, Deokjung Lee*, "Verification of STREAM for OPR-1000 fuel assembly depletion calculations," Reactor Physics Asia 2017 (RPHA17).