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Curriculum Vitae

Hanjoo Kim

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AFFILIATION

2nd year in Combined Master-Ph.D. Program
Ulsan National Institute of Science and Technology (UNIST)
50, UNIST-gil, Ulsan 44919, Republic of Korea

EDUCATION

Combined Master-Ph.D. program
- Major: Nuclear Engineering
- UNIST, Ulsan, Korea, 2016.03 - Present

Bachelor of Engineering
- Major: Nuclear Science and Engineering
- UNIST, Ulsan, Korea, 2010.03 - 2016.02

WORK EXPERIENCE

- Very High Temperature Reactor research
  - Resonance Treatment of coated TRISO particles for double heterogeneity
- Internship
  - Analysis of Reactor Transient and Stability Lab., UIUC (2015.07. 06–2015.08.28)
  - IAEA internship (2016. 08~2017.01, Austria)

RESEARCH INTEREST

- Nuclear Fusion
- Double Heterogeneity Treatment using Equivalence Theory
- Multi-Physics Coupling with T/H Code
- Sensitivity Analysis and Uncertainty Quantification of Nuclear Reactor system

TRAINING

- TRAINING (Domestic)
  - Training on Criticality Analysis of Spent Nuclear Fuel (Daejeon, June 2015)
  - Advanced Visual MCNP6 Workshop (Daejeon, November 2015)
  - McCARD Developer Training Course (Seoul, February 2016)

PUBLICATIONS
SCI Journal

1. **Hanjoo Kim**, Sooyoung Choi, Minyong Park, Deokjung Lee*, and Hyun Chul Lee, “Extension of Doubly Heterogeneity Treatment Method for Coated TRISO fuel Particles,” *Annals of Nuclear Energy*, **Vol. 99**, pp. 124-135, January 2017

2. Sooyoung Choi, Kord Smith, **Hanjoo Kim**, Taewoo Tak, Deokjung Lee, "On the Diffusion Coefficient Calculation in Two-step Light Water Reactor Core analysis," Journal of Nuclear Science Technology, **Vol. 54**, pp. 705-715, March 2017.

International Topical Meeting

1. Kiho Kim, **Hanjoo Kim**, Hyunsuk Lee, Sooyoung Choi, and Deokjung Lee*, "Benchmark Analysis of NCA Tungsten Experiment," RPHA15 Conference, Jeju, Korea, September 16-18, 2015
2. **Hanjoo Kim**, Kiho Kim, Hyunsuk Lee, Sooyoung Choi, and Deokjung Lee*, "Analysis of NCA Tungsten Experiment by New Monte Carlo code," PHYSOR2016, Sun Valley, ID, USA, May 1-5, 2016
3. Sooyoung Choi, Minyong Park, Youqi Zheng, Chidong Kong, Jiwon Choe, **Hanjoo Kim**, Kiho Kim, Ho Cheol Shin, Deokjung Lee, "Development Status of Reactor Physics Code Suite in UNIST," Croatian Nuclear Society, Zadar, Croatia, June 5-8, 2016.

International and Domestic Conferences

1. Hanjoo Kim, Sooyoung Choi, Deokjung Lee*, and Hyun Chul Lee, "Extension of STREAM Double Heterogeneity Method to Coated TRISO Particles," KNS Spring Meeting, Jeju, Korea, May 12-13, 2016

ENGLISH CERTIFICATION TOEIC 880

COMPUTER SKILL Fortran programming, Python script, MATLAB script, Shell script

REACTOR CORE ANALYSIS CODE MCNP, Serpent, Visual MCNP Editor, CASMO, SIMULATE, SCALE

COURSES TAKEN

Fundamentals of Nuclear Engineering
Introduction to Nuclear Fuel Cycle Engineering
Nuclear Materials Engineering and Experiment
Introduction to Nuclear Reactor Theory
Nuclear Engineering Design and Lab I
Nuclear Reactor Lab
Introduction to Nuclear Engineering IT
Nuclear Reactor Numerical Analysis
Numerical Analysis and Applications (graduate)