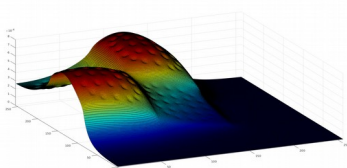




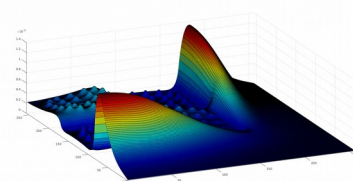
SEMINAR ANNOUNCEMENT

RESEARCH TOPICS AT THE REACTOR PHYSICS LABORATORY OF THE SEOUL NATIONAL UNIVERSITY



Alberto Facchini, PhD candidate at SNU

Lee Jaejin, PhD candidate at SNU



Thursday, May 16, 2019 – Aula Pacinotti at 15:00

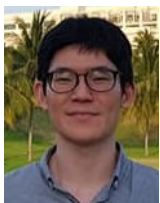
Abstract:

The seminar will provide an overview about the research activities currently performed at the Reactor Physics Laboratory of the Seoul National University within the framework of the application of the Methods of Characteristics (MOC) to the innovative approach of Direct Whole Core Calculation (DWCC). This challenging approach will be presented through the in-house developed code nTRACER. Finally, an introduction to the nTRACER-ESCOT multi-physics platform for coupled neutronic / thermalhydraulics calculations will also be given.

Facchini Alberto and Lee Jaejin are both involved in the development of the drift-flux based core thermalhydraulics code ESCOT and on the coupling between the two SNURPL in-house codes nTRACER and ESCOT aiming at high parallel computations.



Alberto Facchini enrolled in 2010 in the BSc of Nuclear and Safety and Protection at University of Pisa and completed his program in 2013. Immediately after he joined the MSc program in Nuclear Engineering provided by the University of Pisa. From September 2015 to 2016 he was intern at the Joint Research Centre – ex Institute for Energy and Transport (Petten, NL). There he contributed to the modelization of ESFR for MCNP analyses under UTOP conditions. In February 2016 he defended his Master thesis and graduated 110/110 summa cum laude. After his graduation, he won a fellowship with the Department of Civil and Industrial Engineering where he collaborated with Prof. Valerio Giusti, Prof. Donato Aquaro and Doctor Rosa Lofrano until March 2017 when he enrolled in the PhD program at Seoul National University inside the Reactor Physics Laboratory. From March 2019 he is registered as PhD candidate at SNU.



Lee Jaejin enrolled in 2007 in the BSc in Nuclear Engineering at Seoul National University and, after interrupting his studies for 23 months to serve, he completed his program in 2013 graduating with summa cum laude. In the same year he started working as Researcher at the Korea Institute of Nuclear Non-proliferation And Control (KINAC) focusing his research on Proliferation Resistance and Physical Protection (PRPP). In 2014 he enrolled in the MSc Nuclear Engineering program of Seoul National University where he developed the nTRACER-CTF coupling interface, the ESCOT code and the coupling interface nTRACER-ESCOT under the umbrella of the SNU Reactor Physics Laboratory (RPL). The development of the first version of the ESCOT code allowed him to graduate in 2016. Immediately after he joined the Seoul National University PhD program again inside the RPL. From September 2018 he is registered as PhD candidate at SNU.