



CEIDEN

PLATAFORMA TECNOLÓGICA DE ENERGÍA NUCLEAR DE FISIÓN



POLITÉCNICA



INDUSTRIALES
ETSII | UPM

4th UPM/CEIDEN Workshop on “Neutronic Design of Small Modular Reactors”

May 19, 2022

Universidad Politécnica de Madrid

Instituto de Fusion Nuclear “Guillermo Velarde”

ETS de Ingenieros Industriales de Madrid, Madrid, Spain

The aim of this Workshop is to bring together users and developers in the field of nuclear data and reactor physics to discuss and exchange our expertise on neutronic design of Small Modular Reactors. It could be a good opportunity for identifying areas of future developments and cooperation among the participants. The workshop will serve to identify research topics and challenges in neutron simulation and validation requirements in SMRs such as:

- High burnup and high enrichment
- Long fuel cycle operation
- Boron free
- Advanced materials for fuel and cladding
- More innovative loading patterns
- etc...

Thus, the workshop scope will cover different topics of interest for neutronic design in SMRs:

- Nuclear data needs
- Neutronic modelization: Lattice codes – Core codes
- Depletion/burnup calculation
- Neutronic safety analysis
- Sensitivity Analysis/Uncertainty Quantification

Registration: by e-mail to: oscar.cabellos@upm.es

This is a no-fee Workshop.

Workshop will be conducted through video-conference only.

Agenda: May 19, (Thursday) 2022

9:00h-13:00h (Detailed agenda will be made available in due course)

Oral presentations: Participants interested in making oral presentations should notify the contact person and submit the title before April 8th, 2022.

Venue: Instituto de Fusion Nuclear “Guillermo Velarde”.

ETS de Ingenieros Industriales de Madrid

C/Jose Gutierrez Abascal, 2. 28006 Madrid (Spain)

Organizing committee: Oscar Cabellos (UPM), oscar.cabellos@upm.es

INGENIA/NUCLEAR-2022 Team

Technical committee: Oscar Cabellos (UPM) and Pablo. T. León (CEIDEN)