



Tuesday, October 27th, 2020

16:00 – 16:30 MEZ	Get Together and Technical Test
16:30 – 18:00	Welcome session <ol style="list-style-type: none"> Peter Müller-Buschbaum (TUM) <i>The mission of MLZ and FRM II</i> Winfried Petry (TUM) <i>The Conversion Program at the FRM II</i> Jaakko Leppänen (VTT) <i>Greetings from the Serpent developer team</i>

Wednesday, October 28th, 2020

09:00 – 10:00 MEZ	Technical session: New features in Serpent <ol style="list-style-type: none"> Jaakko Leppänen (VTT) <i>Recent progress in Serpent development</i> Ville Valtavirta (VTT) <i>Recent progress in Kraken development</i>
10:00 – 10:30	Coffee break
10:30 – 11:30	Technical session: New features in Serpent <ol style="list-style-type: none"> Ana Jambrina (LUT University) <i>Functional expansion tally-based features in Serpent 2</i> Christian Reiter (TUM) <i>Implementation of Involutes in Serpent</i>
11:30 – 13:00	Lunch break
13:00 – 14:30	Technical session: Fast Reactors <ol style="list-style-type: none"> Simone Di Pasquale (N.I.N.E.) <i>Serpent application to Neutronics Benchmark of CEFR Start-Up Tests</i> Emil Fridman (HZDR) <i>China Experimental Fast Reactor (CEFR): transient simulation of the control rod drop experiments with Serpent</i> Emil Fridman (HZDR) <i>Comparison of ENDF/B-VII.1, ENDF/B-VIII.0, and JEFF-3.3 as applied to SA&UC of China Experimental Fast Reactor (CEFR)</i> Jaakko Leppänen (VTT) <i>New command line plotter in Serpent</i> Simppa Äkäslompolo (Aalto University) <i>Serpent 2 python plotter</i>
14:30 – 15:00	Coffee break



15:00 – 16:30	Technical session: Group constants <ol style="list-style-type: none"> 1. Antti Rintala (VTT) <i>Microscopic depletion with Serpent</i> 2. Rizki Oktavian (Purdue University) <i>Triangle-based Quasi-diffusion Nodal Solver Employing Serpent's Homogenized Group Constants</i> 3. Petri Tom Forslund Guimarães (Westinghouse Electric Sweden AB) <i>Serpent2/POLCA8 3D Single-Channel Benchmark</i>
16:30	Virtual Group Photo

Thursday, October 29th, 2020

09:00 – 10:30 MEZ	Technical session: Multi-physics <ol style="list-style-type: none"> 1. Kaltrina Shehu (TUM) <i>Coupled Serpent / Ansys CFX calculations</i> 2. Chunyu Liu (TUM) <i>Multi-physics coupling between Serpent and COMSOL</i> 3. Diego Ferraro (KIT) <i>Serpent multiphysics calculations for transient analysis in LWR</i>
10:30 – 11:00	Coffee break
11:00 – 12:00	Technical session: MSR <ol style="list-style-type: none"> 1. Jonathan Scherr (Abilene Christian University) <i>The ACU Molten Salt Research Reactor</i> 2. Luke Seifert (The University of Illinois) <i>Material Flows and On-line Reprocessing in Serpent</i> 3. Olga Negri (The University of Manchester) <i>Precursor drift in molten salt reactors</i> 4. Armin Seubert (GRS) <i>Parameterized Input Decks in Serpent using Variables and Arithmetic Expressions</i>
12:00 – 13:00	Lunch break
13:00 – 14:00	Technical session: Burnup <ol style="list-style-type: none"> 1. Manuel García (KIT) <i>Validation calculations for Serpent full-core pin-by-pin burnup in Light Water Reactors</i> 2. Augusto Hernandez Solis (SCK-CEN) <i>Code-to-code depletion benchmark to test the novel SERPENT2 capabilities while utilizing different energy deposition models</i>
14:00 – 14:30	Coffee break



14:30 – 15:30	Technical session: Burnup <ol style="list-style-type: none"> Vaibhav Mishra (Uppsala Universitet) <i>Use of Serpent Monte-Carlo code for development of 3D full-scale models and analysis of spent fuel quivers</i> Gašper Žerovnik (EC-JRC Geel) <i>Effect of spatial and time discretization parameters on calculated PWR spent fuel observables</i>
18:00	Virtual Social Event

Friday, October 30th, 2020

09:00 – 10:00 MEZ	Technical session: Miscellaneous <ol style="list-style-type: none"> Simppa Äkäslompolo (Aalto University) <i>Serpent model of W7-X stellarator for 14.1 MeV neutrons</i> Daniel Bonete Wiese (TUM) <i>First steps at FRM II to use Serpent in medical applications</i>
10:00 – 10:30	Coffee break
10:30 – 11:30	Technical session: Miscellaneous <ol style="list-style-type: none"> Pavel Pugachev (Moscow Engineering Physics Institute) <i>Application of Serpent 2 for fuel debris neutronic modeling</i> Mikolaj Kowalski (University of Cambridge) <i>Accelerating Surface Tracking via Distance Caching</i>
11:30 – 13:00	Lunch break
13:00 – 14:00	Technical session: Miscellaneous <ol style="list-style-type: none"> Davide Portinari (ILL) <i>High Flux Reactor conversion to LEU</i> Monika Koleva (IPP) <i>Calibration of neutron detectors at ASDEX Upgrade</i>
14:00 – 14:30	Coffee break



14:30 – 16:00	Technical session: Miscellaneous <ol style="list-style-type: none">1. Pamela Lopez (LPSC-CNRS/EDF) <i>Core Power Distribution Sensitivity</i>2. Osama Abdelaziz (Moscow Engineering Physics Institute) <i>A new approach for Am-241 loading in SD-TMSR using Monte Carlo Serpent code</i>3. Alex Valentine (UK Atomic Energy Authority) <i>Benchmarking Serpent 2 for fusion neutronics applications</i>
16:00 – 16:30	Coffee break
16:30 – 18:00	Technical session: Miscellaneous <ol style="list-style-type: none">1. Pascal Rouxelin (North Carolina State University) <i>TVA Watts Bar Unit 1 Modeling with Serpent 2.1.31</i>2. Majdi Radaideh (MIT) <i>TBA</i>
18:00	Closure & Adjourn