

Serpent-2 on-line training course for beginners

7-11 April 2025

Tentative Agenda

Day 1

Monday, April 7, 2025

- 17:00 - 17:15 Welcome and self-introduction
- 17:15 - 17:50 Introduction to Serpent and its capabilities
- 17:50 - 18:00 **Break**
- 18:00 - 18:50 Input syntax, nuclear data, material definitions
- 18:50 - 19:00 **Break**
- 19:00 - 19:50 Basic geometry and plotting
- 19:50 - 20:00 **Break**
- 20:00 - 21:00 Criticality calculations

Day 2

Tuesday, April 8, 2025

- 17:00 - 17:15 Q&A
- 17:15 - 17:50 Advanced geometry
- 17:50 - 18:00 **Break**
- 18:00 - 18:50 Advanced geometry
- 18:50 - 19:00 **Break**
- 19:00 - 19:50 Detectors and mesh detectors
- 19:50 - 20:00 **Break**
- 20:00 - 21:00 Practice session

Day 3

Wednesday, April 9, 2025

- 17:00 - 17:15 Q&A
- 17:15 - 17:50 Burnup and decay calculations
- 17:50 - 18:00 **Break**
- 18:00 - 18:50 Burnup and decay calculations
- 18:50 - 19:00 **Break**
- 19:00 - 19:50 Post-processing and analysis
- 19:50 - 20:00 **Break**
- 20:00 - 21:00 Practice session

Day 4**Thursday, April 10, 2025**

17:00 - 17:15 Q&A
17:15 - 17:50 Tips & Tricks
17:50 - 18:00 **Break**
18:00 - 18:50 Multi-group cross section generation
18:50 - 19:00 **Break**
19:00 - 19:50 Multi-group cross section generation
19:50 - 20:00 Break
20:00 - 21:00 Practice session

Day 5**Friday, April 11, 2025**

17:00 - 17:15 Q&A
17:15 - 17:50 Final assignment
17:50 - 18:00 **Break**
18:00 - 18:50 Final assignment
18:50 - 19:00 **Break**
19:00 - 19:50 Final assignment
19:50 - 20:00 Break
20:00 - 21:00 Wrap-up and course conclusion