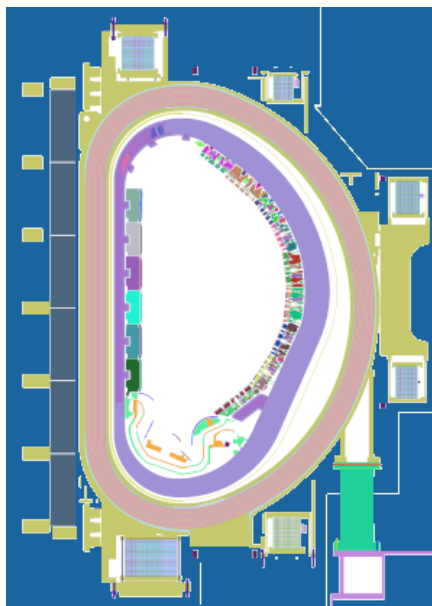


## Session Program

May 28 – 30, 2025



## OpenMC Application to Tokamak Neutronics Analysis Meeting

### *Development*

Argonne National Laboratory, Rooms 1404-1407  
9700 S. Cass Avenue Building 240, TCS Conference Center (north. entrance) Lemont, IL 60439 +1-630-252-5757

# Wed, May 28

8:55 AM

## Development

Session |

**Location:** Argonne National Laboratory, Rooms 1404-1407, 9700 S. Cass Avenue Building 240, TCS Conference Center (north. entrance) Lemont, IL 60439 +1-630-252-5757

08:55 – 09:20 **R2S developments and application**

**Speaker**

Ethan Peterson

09:20 – 09:45 **D1S scheme of OpenMC Monte Carlo code validation for SDR calculation**

**Speaker**

Bamidele Ebiwonjumi

09:45 – 10:10 **MCNP model conversion capabilities**

**Speaker**

Paul Romano

10:10 – 10:25 **Break**

10:25 – 10:50 **FES Project Plans**

**Speaker**

Paul Romano

10:50 – 11:15 **UQ and sensitivity**

**Speaker**

Bamidele Ebiwonjumi

11:15 – 11:40 **Random ray and variance reduction**

**Speaker**

John Tramm

11:40 – 12:00 **Discussion**

12:00 PM

1:15 PM

## Development

Session |

**Location:** Argonne National Laboratory, Rooms 1404-1407, 9700 S. Cass Avenue Building 240, TCS Conference Center (north. entrance) Lemont, IL 60439 +1-630-252-5757

13:15 – 13:40 **GPU developments**

**Speaker**

John Tramm

13:40 – 14:05 **Investigations into reduced precision arithmetic**

**Speaker**

Chris Marshall

14:05 – 14:30 **PUMITally: A GPU accelerated unstructured mesh tally library integrated with OpenMC**

**Speaker**

Jacob Merson

14:30 – 14:55 **Surface source methodology and application**

**Speaker**

Joffrey Dorville

14:55 – 15:10 **Break**

15:10 – 15:35 **Cloud simulations with OpenMC in Sirepo**

**Speaker**

Stephen Coleman

15:35 – 16:00 **CAD ecosystem developments**

**Speaker**

Patrick Shriwise

16:00 – 16:25 **Visualization and data extraction**

**Speakers**

Patrick Shriwise, Paul Romano

16:25 – 17:00 **Discussion / wrap-up**

5:00 PM