

JLESC AI for Science Breakout session

Schedule

All talks: 15 minutes of presentation + 5 minutes of questions

May 19

Session 1: chair: Franck

10:30 [Intro](#) (Franck)

10:45 Rio - Riken

AI Initiatives in Japan

11:05 Sandeep - ANL

Multimodal Generative AI for Science

11:25 Jordi - BSC

HPC Challenges in AI Factories

11:45 [Discussion](#)

12:00 **Lunch**

Session 2: chair; Kengo

13:30 Neil - ANL

AI World Models for Science

13:50 Mathis Bode - JSC

AI Model Highlights Driven by JUPITER

14:10 Willam Dawson - Riken

Opportunities to Collaborate on Integrating
LLMs with Simulation Software

14:30 Bogdan ANL

AI Artifact Reusability: Abstractions and Opportunities

14:50 [Discussion](#)

15:00 **Break**

Session 3: chair: Jordi

15:30 Phuong - UIUC Characterizing the Resilience of Hopper H100
and Ampere A100 GPUs (based on [SC' 25](#))

15:50 Philippe Swartvagher - Inria Evaluating the Relevance of Task-based
Runtime Systems to Implement Large
Language Model Applications

16:10 Kengo Nakajima - Riken Innovative Computational Science by
Integration of Simulation/Data/Learning on
Heterogeneous Environments towards
FugakuNEXT

16:30 Sheng Di - ANL Towards Scalable AI: Leveraging Lossy
Compression Across the Stack

17:00 **Closing for the day**

May 20

Session 4: chair: Mathis

10:30 [Intro](#) (Franck)

10:40 Jordi - BSC AI Factories (AIF) impact in HPC research
groups

11:00 Emmanuel Jeannot - Inria AI workflow management with UMRS

11:20 Franck - ANL AI based Hypothesis Generation

11:40 [Discussion](#)

12:00 **Lunch**