

Laboratory for Zero-Carbon Energy and GX Frontier VI Co-hosted

Workshop of faculties of MIT and Laboratory for Zero-Carbon Energy

Date Monday, March 23, 2026

Location Conference room, 1st fl. N-1 bldg., Laboratory for Zero-Carbon Energy, Institute of Science Tokyo

Program

12:50-12:55 Opening remarks
Prof. Yukitaka Kato, Director of Laboratory for Zero-Carbon Energy

12:55-14:35 MIT Presentations

12:55-13:15 Prof. Benoit Forget
"Introduction to Nuclear Engineering at MIT "

13:15-13:35 Prof. Emilio Baglietto
"Enabling the Deployment of Next Generation Fission Reactors"

13:35-14:55 Assoc.Prof. Zachary Hartwig
"An Overview of Fusion Science and Technology Research at MIT"

13:55-14:15 Prof. Michael Short
"AI for materials science, and materials science for AI in MIT's Department of Nuclear Science and Engineering"

14:15-14:35 Asst. Prof. Ericmoore Jossou
"Nuclear Fuels for Current and Next Generation of Reactors"

14:35-14:45 Break

14:45-16:00 ZC Lab Presentations

14:45-15:00 Assoc.Prof. Masashiko Nakase

“AI-Enabled Digital Twins for Nuclear Science and Engineering Studies”

15:00-15:15 Assoc.Prof.Jun Hasegawa

“Ion Cyclotron Auto-Resonance Accelerator and Its Application to Nuclear Fusion Engineering”

15:15-15:30 Assoc.Prof. Tatsuya Katabuchi

“Research activities using the Pelletron accelerator of Science Tokyo”

15:30-15:45 Prof. Katsumi Yoshida

“Development of SiC-based composites for nuclear and fusion applications (tentative)”

15:45-16:00 Prof. Hiroshi Sagara

“Safe, Secure and Resilient Advanced Reactors”

16:00-16:05 Closing Remarks

Prof. Takehiko Tsukahara, Deputy Director of Laboratory for Zero-Carbon Energy