

2024

OPEN-TECH Symposium on

# Observation of high frequency emission from MST tokamak plasma in the presence of runaway electrons



Speaker:

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使用言語: 英語 Lecture in English

First direct measurement of local magnetic fluctuations of high frequency emission in a runaway-dominated tokamak plasma with a magnetic probe inserted into the plasma  $r/a \sim 0.8$  and digitized on a high-speed oscilloscope, 12.5 GHz. Emission is observed in several bands of frequencies that correspond to both low and high frequency Whistler bands of frequency, frequencies which would otherwise be hidden to probes outside the plasma. Whistler activities are excited by high energy runaway electrons at low plasma density. Magnetic emission occur in discrete frequency bands and in semi-periodic fashion. Emission bursts are correlated with burst of radial x-ray emission consistent with pitch-angle scattering of energetic electrons...

Please come to the seminar to hear more about the rest of the research, as well as the results and discussion.



Organizer:

**Prof. Haruhiko Himura**  
Kyoto Institute of Technology

Date: **March 4, Mon.**

Time: **13:30-15:30**

Venue: **Kyoto Institute of Technology**  
**Bldg. 8, 1F, 0812/ 8号館 1階 0812**

- ※ オンライン (Zoom) でも実施します。こちらのQRコードから事前に参加登録ください。開催前にZoomのURLをメールでお知らせします。
- ※ Online (Zoom) will also be available. Please register from this QR code beforehand. The online attendee will receive an email with the Zoom URL prior to the event.

