

13th QUEST Workshop
“RF startup and sustainment in Spherical Tokamak”
Agenda, RIAM 2025

27th February AM

9:20 -9:30

Yuichi Takase / Hiroshi Idei

WS purpose and agenda

9:30 - 10:10

Yuichi Takase

Fusion Development at Tokamak Energy

10:10-10:50

Felicity Maiden (Invited)

Modelling Microwave Start-up in Spherical Tokamaks

10:50-11:20

Zhou Junyao

Plasma start-up using EBWCD on QUEST

11:20 - 12:00

Masayuki Ono

Dual utilization of X-I and O-I ECCD for fully solenoid-free operations for a fusion reactor

12:00-12:40

Hitoshi Tanaka

Control parameter mapping for formation of initial closed flux surfaces by ECH in LATE

12:40-13:30

Lunch

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13:30-14:00

Hiroshi Idei

ECH Progress and Plans for QUEST

14:00-14:30

Makoto Hasegawa

Production and control of divertor configuration in QUEST

14:30-15:00

Takeshi Ido

Development of a heavy ion beam probe for turbulent transport studies in QUEST

15:00-15:10

Coffee Break

15:10-15:40

Yoshihiko Nagashima

Initial observation of interaction between kHz range turbulent fluctuations and MHz range fluctuations in the SOL region of the QUEST spherical tokamak

15:40-16:10

Ryuya Ikezoe

Proposal of RF plugging to solve divertor issues and the first step using toroidal local electrodes in a toroidal ECR slab plasma

16:10-16:50

Akira Ejiri

Parameter survey study on the Fusion by Advanced Superconducting Tokamak (FAST)

16:50-17:30

Aleksandra Alieva

Overview of the H&CD design for TE-FPP

Group Photo

28th February AM

9:30-10:10

Roger Raman

Recommended Three-Year CHI Plan on QUEST and Planned Experiments during Year-1

10:10-10:50

Atsushi Fukuyama

Recent progress of kinetic full wave analysis of EC waves in QUEST plasmas

10:50-11:20

Syunichi Shiraiwa

Recent application of Petra-M finite element framework for RF heating/current drive and space plasmas

11:20-12:00

Yusuke Kosuga

Role of Parallel Velocity Gradient (PVG) turbulence in spherical tokamaks

12:00-12:40

Shin Kubo

Toward the experimental and numerical estimation of the power flux of the electron Bernstein wave

12:40-13:30

Lunch

28th February PM

All suggested focus and output for this joint drafting session

Drafting of proposals for experiments, diagnosis, and analysis