

**14<sup>th</sup> QUEST Workshop**  
**“RF startup and sustainment in Spherical Tokamak”**  
**Tentative Agenda, RIAM 2026**

*26<sup>th</sup> February AM*

9:00 -9:10

Yuichi Takase / Hiroshi Idei

**WS purpose and agenda**

9:10 - 9:50

Yuichi Takase

**Recent results from ST40 and future plans**

9:50-10:30

Masayuki Ono

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

10:30-11:10

Nicola Bertelli

**EC heating/current drive scoping study for the SMART device**

11:10 – 11:50

Luis Delgado–Aparicio

**Soft and hard X-ray diagnostic development and possible applications to QUEST**

11:50-12:50

**Lunch**

*26<sup>st</sup> February PM*

12:50-13:20

Hiroshi Idei

**Progress on ECH/CD System and Research Plan on QUEST**

13:20-13:40

Takumi Onchi

**Power supply testing of a new current source for the toroidal coil of the QUEST spherical tokamak**

13:40-14:10

Takahiro Yamaguchi

**Initial results on X-I and X-2 EC plasma ramp-up experiments**

14:10-14:40

Akira Ejiri

**Development of Thomson scattering systems for QUEST, TST-2 and DEMO**

14:40-15:10

Kengou Kuroda

**CHI current drive by using FSB electrode configuration in QUEST**

15:10-15:40

Taichi Shikama

**Spectroscopic measurements of metallic impurities in CHI discharges**

15:40-16:00

Yuya Otsuka

**Observation of Sheet Structure During Coaxial Helicity Injection in the QUEST Spherical Tokamak**

16:00-16:10

Coffee Break

16:10-16:40

Makoto Hasegawa

**Prediction of Tokamak Plasma Parameters Using Machine Learning**

16:40-17:10

Ryuya Ikezoe

**Global RE-driven mode effects in QUEST and MHD-based studies of peak-load mitigation in RF-plugged divertors**

17:10-17:40

Yoshihiko Nagashima

**Experiments and Analyses on electrostatic fluctuations obtained by a SOL Langmuir probe in QUEST**

### **Group Photo**

*27<sup>th</sup> February AM*

9:00-9:30

Syunichi Shiraiwa

**Application of discontinuous petrov galerkin discretization to radio-frequency wave simulation**

9:30-10:00

Atsushi Fukuyama

**Modeling of electron cyclotron current drive and heating in QUEST plasmas**

10:00-10:30

Sadayoshi Murakami

**Simulation study of ECH multiple resonance heating and energetic electron generation in the QUEST spherical tokamak**

10:30-11:00

Kazuaki Hanada

**EBW experiments by ECW injected from the high field side on QUEST**

11:00-11:30

Shin Kubo

**Progress in HCN laser scattering measurement on QUEST for EBW detection**

11:30-12:00

Takeshi Ido

**Present Status of HIBP on QUEST**

12:00-12:30

Toshiki Kinoshita

**Development and Initial Results of Doppler Backscattering on the QUEST Spherical Tokamak**

12:30-13:30

**Lunch**

*28<sup>th</sup> February PM*

All suggested focus and output for this joint drafting session

**Drafting of proposals for experiments, diagnosis, and analysis**