

# US-Japan JIFT Workshop

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General Atomics, San Diego, CA  
July 22–24, 2015

Room 15-019

## Wednesday, July 22

8:30 AM Refreshments

9:15 AM Opening Remarks

### *Non-axisymmetric Equilibria in Axisymmetric Devices*

9:30 AM	Three-dimensional equilibria in the DIII-D tokamak	J. King, GA
10:00 AM	Reconstruction of 3D Equilibria for DIII-D Discharges using the VMEC/V3FIT Code	A. Wingen, ORNL
10:30 AM	QSH State of RFP	P. Terry, Wisconsin
11:00 AM	Two-fluid Plasma Response in ELM Suppressed Regimes	N. Ferraro, GA
11:30	Discussion	
Noon	Lunch	

### *Stellarators*

2:00 PM	3D MHD Modeling Issues for Stellarators	Y. Suzuki, NIFS
2:30 PM	Development of Integrated Transport Analysis Suite, TASK3D-a, and its Application to LHD	M. Yokoyama, NIFS
3:00 PM	Refreshments	
3:30 PM	Effect of RMP on Pressure Driven Instabilities in LHD	S. Ohdachi, NIFS
4:00 PM	Understanding 3D MHD on CTH	D. Maurer, Auburn
4:30 PM	Discussion	
5:00 PM	DIII-D Tour	N. Eidielis, GA

## Thursday, July 23

8:30 AM Refreshments

### *Plasma Response in Tokamaks*

9:00 AM Probing Plasma Response Models with  $n=2$  Measurements J. Hanson, Columbia

9:30 AM Identification and Impact of Multi-Modal Plasma Response N. Logan, PPPL

10:00 AM Modeling the Effects of Rotation on RWM Stability at High Current and High BetaN F. Turco, Columbia

10:30 AM Measurements and Modeling of Island Screening on DIII-D M. Shafer, ORNL

11:00 AM Discussion

Noon Lunch

### *RMP ELM Mitigation and Suppression*

2:00 PM Understanding the Physics of EHO in QH-mode on DIII-D Including the Role of Rotation Shear X. Chen, GA

2:30 PM Theory and Simulation of Quasilinear Transport from External Magnetic Field Perturbations in a DIII-D Plasma R. Waltz, GA

3:00 PM Refreshments

3:30 PM Suppression of Type-I ELMs with Incomplete I-Coil Set in DIII-D D. Orlov, UCSD

4:00 PM External Kink Mode in Diverted Tokamaks A. Turnbull, GA

4:30 PM Discussion

## Friday, July 24

8:30 AM Refreshments

### *Transport in 3D Fields*

9:00 AM Modeling of 3D Effects in Tokamaks using the EMC3-EIRENE Code J. Lore, ORNL

9:30 AM Recent V&V Activities of Neoclassical Transport Simulation in Helical Plasmas and its Application to 3D Physics in Tokamaks S. Satake, NIFS

10:00 AM Comparison of Fast Ion Analyses with Fast Ion Measurement with a Hybrid Directional Probe in LHD R. Seki, NIFS

10:30 AM Gyrokinetic models for energetic particle instabilities in 3D configurations D. Spong, ORNL

11:00 AM Discussion