

Agenda for US-Japan Workshop on Integrated Simulation of Fusion Plasmas

Session	Time	Speaker	Title
Monday 1/29			
	9:00	Batchelor	Welcome and announcements
<i>(Jardin chair)</i>			
Fusion plans and needs	9:10	Houlberg	ITER Modeling needs and plans
	9:50	Nakajima	Modeling needs for 3D systems
	10:30	Break	
<i>(Fukuyama char)</i>			
	10:40	Kritz	New FSP committee
	11:00	Cary	FACETS –Framework application for core-edge transport simulations
CS and Math developments of importance to fusion	11:40	Siegel	Large-scale software engineering
	12:20	Lunch	
<i>(Strand chair)</i>			
	1:20	Keys	Mathematical software infrastructure for computational science and engineering
	2:00	Bernholdt	The Common Component Architecture: Building frameworks for computational science
	2:40	Bramley	SWIM CS
	3:20	Break	
<i>(Kritz chair)</i>			
Integrated codes I	3:40	St. John	Globally convergent Newton parallel transport modeling
	4:20	Giruzzi	The CRONOS suite of codes for integrated tokamak modeling
	5:00	Fukuyama	Integrated modeling of heating and current drive in ST and ITER
	5:40	Adjourn	
	7:00		Reception at Batchelor's house
Tuesday 1/30			
<i>(Sovinec chair)</i>			
Edge simulation	9:00	Xu	Continuum edge plasma simulation and its role on tokamak rotation
	9:40	Takizuka	PARASOL Simulation of Electrostatic Potential Structure in Core and SOL-Divertor Plasmas
	10:20	Break	
<i>(Giruzzi chair)</i>			
RF interactions	10:40	Berry	Automated coupling of wave and Fokker Planck solvers
	11:20	Bonoli	Simulations of wave-particle interactions in the ioncyclotron and lower hybrid range of frequencies
	12:00	Lunch	
<i>(Yagi chair)</i>			
Integrated codes II	1:00	Strand	Plans and status of the European Task Force on Integrated Tokamak Modelling Activities
	1:40	Kritz	PTRANSP – Development of the predictive TRANSP code
Stability	2:20	Jardin	M3D-C1
	3:00	Break	
<i>(Cary chair)</i>			
	3:20	Ozeki	transport + MHD
	4:00	Sovinec	NIMROD
	4:40	Naitou	Kinetic MHD
	5:20	Fu	Integrated simulations of energetic particle-driven modes in burning plasmas
	6:00	Adjourn	
Wednesday 1/31			
<i>(Takizuka chair)</i>			
Transport modeling	9:00	Kessel	TSC applications
	9:40	Yagi	Transport simulation based on Global Turbulence Code
	10:20	Break	
<i>(Batchelor chair)</i>			
	10:40	Honda	Dynamic transport simulation code including plasma rotation and radial electric field
	11:20	All	Discussion of next meeting
	12:00	Adjourn	End of workshop
	1:30		Informal discussion of approaches to common code and data interfaces