2014 Medium-Size Tokamak (MST) Campaign on ASDEX Upgrade: Preliminary experimental schedule

Period: 3 February – 31 July 2014

Campaign: MST1-AUG14

Exp. Id	Exp. Title	Number of shots
Calendar week 6 & 7: Monday 03 Feb. to Friday 14 Feb. 2014 *(5 days of AUG operation **- Boronisation Mond. 10 Feb**)*		
AUG14-1.5-1	W asymmetries (1/1)	16
AUG14-1.5-3	W transport and its accumulation in presence of MHD instabilities in H-mode plasmas (1/1)	8
AUG14-2.3-1	L-mode detachment studies and power load (1/2)	9
Calendar week 8 & 9: Monday 17 Feb. to Friday 28 Feb. 2014 *(5 days of AUG operation)*		
AUG14-1.2-2	Effect of divertor geometry on L-H transition (1/1)	10
AUG14-1.4-3	NTM onset mechanisms at low rotation without triggers (1/1)	4
AUG14-2.2-3	SOL filamentary transport at high density (1/2)	8
AUG14-1.8-1	The O1 heating scheme for ITER (1/1)	8
AUG14-2.1-1	High radiation scenarios βN (1/2)	12
	Contingency	*8*
Calendar week 10 & 11: Monday 03 March to Friday 15 March 2014 *(5 days of AUG operation)*		
AUG14-1.3-2	Disruption mitigation (1/1)	20
AUG14-1.1-2	Integrated improved H-mode scenario with low and high radiative fraction in D and H (1/4)	16
AUG14-2.1-2	Detachment studies and HFS blob in H-Mode (1/2)	10
AUG14-1.6-1	Pellet fuelling to high density and in RMP plasmas (1/2)	6
Calendar week 12 & 13: Monday 17 March to Friday 29 March 2014 *(5 days of AUG operation **- Boronisation Mond. 17 March**)*		
AUG14-1.1-4	Momentum and particle transport. Scaling intrinsic rotation and role of sawteeth on momentum and particle transport (1/3)	10
AUG14-1.6-1	Pellet fuelling to high density and in RMP plasmas (2/2)	6
AUG14-1.7-1	Off-axis neutral beam current drive (1/2)	8
AUG14-1.7-2	Effect of Alfvén instabilities on fast ions (1/2)	4
AUG14-1.7-3	Effect of sawteeth on fast ions (1/2)	4
	Contingency	*8*

Calendar week 14: Monday 31 March to Friday 05 April 2014 *(3 days of AUG operation **- High power week**)*		
AUG14-1.1-1	Integrated baseline scenario at low and high triangularity at q95=3 and 3.6 (1/2)	18
AUG14-1.1-2	Integrated improved H-mode scenario with low and high radiative fraction in D and H (2/4)	12
AUG14-1.2-6	ELM mitigation/suppression studies using magnetic perturbations at high density(1/1)	8
AUG14-2.1-1	High radiation scenarios βN (2/2)	10
	Contingency	*4*
Calendar week 15 & 16: Monday 07 April to Friday 18 April 2014 *(5 days of AUG operation - No operation 18 & 19 April)*		
AUG14-1.1-6	Energy losses near H-mode density limit (1/2)	4
AUG14-1.4-1	Develop active sawtooth control using ECCD and RMPs (1/2)	4
AUG14-1.4-2	NTM control using ECCD (1/2)	16
AUG14-2.2-1	Power handling capabilities of castellated tungsten divertor (1/1)	16
Calendar week 17 & 18: Monday 21 April to Friday 03 May 2014 *(4 days of AUG operation - No operation 21 & 22 April, 1 May **- Boronisation Mond. 28 March**)*		
AUG14-1.1-4	Momentum and particle transport. Scaling intrinsic rotation and role of sawteeth on momentum and particle transport (2/3)	10
AUG14-1.2-4	ELM mitigation/suppression studies using magnetic perturbations at low collisionality (1/2)	17
AUG14-1.2-5	L-mode plasma response to magnetic perturbations at low density (1/2)	6
AUG14-1.4-4	NTM dynamics and external magnetic perturbations (1/2)	8
AUG14-2.3-1	L-mode detachment studies and power load (2/2)	9
	Contingency	*8*
Calendar week 19 & 20: Monday 05 May to Friday 17 May 2014 *(5 days of AUG operation)*		
AUG14-1.1-3	Dimension less ρ* and β scaling of confinement and turbulence in standard and improved H-modes (1/3)	14
AUG14-1.1-6	Energy losses near H-mode density limit (2/2)	4
AUG14-1.2-1	Pedestal evolution in D, H (1/2)	8
AUG14-1.4-4	NTM dynamics and external magnetic perturbations (2/2)	8
AUG14-2.2-3	SOL filamentary transport at high density (2/2)	12
Calendar week 21 & 22: Monday 19 May to Friday 31 May 2014 *(5 days of AUG operation - No operation 29 & 30 May **- Boronisation Mond. 19 May**)*		
AUG14-1.2-4	ELM mitigation/suppression studies using magnetic perturbations at low collisionality (2/2)	16
AUG14-1.2-7	ELM mitigation using pellet injection (1/2)	8
AUG14-1.7-1	Off-axis neutral beam current drive (2/2)	8
AUG14-1.7-2	Effect of Alfvén instabilities on fast ions (2/2)	4
AUG14-1.7-3	Effect of sawteeth on fast ions (2/2)	4
AUG14-1.7-4	Combined effect of ELMs and magnetic perturbation on fast ions (1/1)	8
	Contingency	*8*

Calendar week 23: Monday 02 June to Friday 06 June 2014 *(3 days of AUG operation **- High power week**)*		
AUG14-1.1-1	Integrated baseline scenario at low and high triangularity at q95=3 and 3.6 (2/2)	18
AUG14-1.1-3	Dimension less ρ* and β scaling of confinement and turbulence in standard and improved H-modes (2/3)	8
AUG14-1.2-7	ELM mitigation using pellet injection (2/2)	8
AUG14-1.4-1	Develop active sawtooth control using ECCD and RMPs (2/2)	6
AUG14-1.4-2	NTM control using ECCD(2/2)	8
	Contingency	*4*
Calendar week 24 & 25: Monday 09 June to Friday 20 June 2014 *(4 days of AUG operation - No operation 09, 10, 19, 20 June)*		
AUG14-1.3-1	Disruption Avoidance (1/2)	16
AUG14-1.4-5	β-limit with conducting structures (1/1)	8
AUG14-2.1-2	H-Mode Detachment studies (and HFS blob) (2/2)	10
Calendar week 26 & 27: Monday 23 June to Friday 05 July 2014 *(5 days of AUG operation **- Boronisation Mon. 30 June**)*		
AUG14-1.1-2	Integrated improved H-mode scenario with low and high radiative fraction in D and H (3/4)	10
AUG14-1.1-4	Momentum and particle transport. Scaling intrinsic rotation and role of sawteeth on momentum and particle transport (3/3)	8
AUG14-1.1-5	ITER-like heating scheme in improved H-modes (1/1)	8
AUG14-1.6-2	Collisionality dependence of particle transport (1/1)	8
AUG14-1.8-3	Plasma position control by reflectometry (1/1)	5
AUG14-2.2-4	Ion Cyclotron Wall Conditioning	0*
Calendar week 28 & 29: Monday 07 July to Friday 19 July 2014 *(5 days of AUG operation)*		
AUG14-1.1-7	Bulk ion heating with 3He minority heating on AUG	8
AUG14-1.5-2	Characterisation of ICRF related sheath and coupling effects	22
AUG14-1.8-2	Validation of model-based real-time plasma profile reconstruction and prediction (1/1)	3
	Contingency	*8*
Calendar week 26 & 27: Monday 21 July to Friday 31 July 2014 *(5 days of AUG operation **- H plasmas from 23 July**)*		
AUG14-2.2.2	Migration studies (1/1) - **D plasmas**	14
AUG14-1.2.3	I-phase studies in H and D (1/2) - **D plasmas**	3
AUG14-1.1-2	Integrated improved H-mode scenario with low and high radiative fraction in D and H (4/4) **- H plasmas**	6
AUG14-1.1-3	Dimension less ρ* and β scaling of confinement and turbulence in standard and improved H-modes (3/3) **- H plasmas**	6
AUG14-1.2-1	Pedestal evolution in D, H (2/2) **- H plasmas**	8
AUG14-1.2-3	I-phase studies in H and D (2/2) **- H plasmas**	3

**To be done on a technical shot day week 26*