

# Program

order	time	date	from to	init	Name	Affiliation	Title
	0:20	22-Apr	9:00				Registration
	0:05		9:20				Opening Address
	0:05		9:25				Welcome Address
			9:30				Theory (Chair: S. Kubo)
1	0:40		9:30	10:10	O. Maj	IPP, Garching, Germany	Scattering of diffracting beams of electron cyclotron waves by random density fluctuations in inhomogeneous plasmas
2	0:25		10:10	10:35	A. Koehn	IGVP, Uni. Stuttgart, Germany	Influence of density fluctuations on the O-X mode conversion and on microwave propagation
3	0:25		10:35	11:00	A.K. Ram	MIT, USA	Scattering of ECRF waves by edge density fluctuations and blobs
4	0:25		11:00	11:25	E. Westerhof	DIFFER, Netherland	Closure of the single fluid magnetohydrodynamic equations in presence of electron cyclotron current drive
5	0:25		11:25	11:50	M. van Berkel	DIFFER, Netherland	How to do more with ECE noise?
6	0:25		11:50	12:15	W. Kernbichler	TU Graz, Austria	Computation of the Spitzer function in stellarators and tokamaks with finite collisionality
	1:40		12:15	13:55			Lunch
			13:55				Theory/ECRH/ECCD (Chair: E. Westerhof)
1	0:25		13:55	14:20	N. Maruschenko	IPP-Greifswald, Germany	ECRH scenario with selective heating of trapped/passing electrons in the W7-X Stellarator
2	0:25		14:20	14:45	E. Poli	IPP, Garching, Germany	On the criteria guiding the design of the upper electron-cyclotron launcher for ITER
3	0:40		14:45	15:25	T. Goodman	EPPF, Swiss	Recent physics studies using ECH/ECCD at the 2nd and 3rd harmonics in TCV
4	0:25		15:25	15:50	J. Stober	IPP, Garching, Germany	High power ECRH and ECCD in moderately collisional ASDEX Upgrade H-modes and status of EC system upgrade
	0:10		15:50	16:00			Break
			16:00				ECRH/ECCD1(Chair: G. Taylor)
5	0:25		16:00	16:25	M. Preynas	IPP, Garching, Germany	Experimental characterization of plasma start-up using ECRH in preparation of W7-X
6	0:25		16:25	16:50	H. Tanaka	Kyoto Univ., Japan	Non-inductive current start-up by electron cyclotron heating and current drive in tokamak plasmas
7	0:25		16:50	17:15	M. Uchida	Kyoto Univ., Japan	Noninductive formation of an extremely overdense spherical tokamak by electron Bernstein wave heating and current drive on LATE
8	0:25		17:15	17:40	V.F. Shevchenko	CCFE, UK	Long Pulse EBW Start-up Experiments in MAST
9	0:25		17:40	18:05	B.K. Shukla	IPR, India	42GHz ECRH assisted Plasma Breakdown in tokamak SST-1
			18:05				Adjourn
			9:00				ECRH/ECCD3(Chair: H. Tanaka)
1	0:40		9:00	9:40	R.L. Pinsky	GA, USA	Application of Electron Cyclotron Heating to the Study of Transport in ITER Baseline Scenario-like Discharges in DIII-D
2	0:25		9:40	10:05	J. Lohr	GA, USA	Performance History and Upgrades for the DIII-D Gyrotron Complex
3	0:25		10:05	10:30	M. Schubert	IPP, Garching, Germany	Machine safety issues with respect to the extension of ECRH systems at ASDEX
	0:10		10:30	10:40			Break
			10:40				ECRH/ECCD4(Chair: J. Stober)
4	0:25		10:40	11:05	H. Igami	NIFS, Japan	Recent upgrading of ECRH system and studies to improve ECRH performance in the Control of Energetic-Particle-Driven MHD Modes by ECH/ECCD in Helical Systems
5	0:25		11:05	11:30	K. Nagasaki	Kyushu Univ., Japan	High power ECRH system using microwave rectifier for electron cyclotron heating in tokamak plasmas
6	0:25		11:30	11:55	K. Mishra	IPP, Garching, Germany	High power ECRH system using microwave rectifier for electron cyclotron heating in tokamak plasmas
7	0:25		11:55	12:20	H. Idei	Kyushu Univ., Japan	Non-inductive Current Drive Experiments using 28 GHz Electron Cyclotron Waves in QUEST
8	0:25		12:20	12:45	M. Nishitara	Univ. of Tokyo, Japan	Operation regime of RT-1 by electron cyclotron heating
	1:00		12:45	13:45			Lunch Break
			13:45				ITER-ECE(Chair: V. Uditsev)
1	0:40		13:45	14:25	J. Taylor	PPPL, USA	Status of the Design of the ITER ECE Diagnostic
2	0:25		14:25	14:50	H.K. Pandya	IPP, Garching, Germany	New approach to ECE measurements based on Hilbert-transform spectral analysis
3	0:25		14:50	15:15	P.V. Subhash	IPP, Garching, Germany	Comparison between the ECE spectrum and the ECRH in the presence of a static population
	0:25		15:15	15:40			discussion
			15:40				Poster
1	3:00		15:40	18:40	F. Alhajar	EA-E, Spain	EC Radiative Transport and Losses in DEMO-like High-Temperature Plasmas
2					V.R. Lin-Liu	NCU, Taiwan	The effect of synchrotron radiation loss on conductivity of a relativistic magnetized plasma
3					S. Murakami	Kyoto Univ., Japan	Development of Momentum Conserving Monte Carlo Simulation Code for ECCD Study in Helical Plasmas
4					D. Farina	IFP-CNR, Italy	Assessment of the ITER EC Upper Launcher Performance
5					G. Taylor	PPPL, USA	A Megawatt-Level 28 GHz Heating System for the National Spherical Torus Experiment Upgrade
6					D. Wu	ASIPP, China	Polarization and mode control of EAST 140 GHz ECH system
7					X. Wang	ASIPP, China	The EAST 140 GHz 4 MW ECRH system
8					B.J. Seok	Dawonsys Comp., France	Real-Time Feed-backed Anode Power System for 170GHz gyrotron in KSTAR
9					J. Decker	CEA, France	Experimental characterization of quasilinear effects on ECRH
10					Y.S. Bae	NFRI, Korea	Study of synergistic effect of X2 and X3 EC wave in KSTAR
11					J.H. Jeong	NFRI, Korea	Demonstration of sawtooth period control with EC waves in KSTAR plasma
12					J. Stober	IPP, Garching, Germany	Feedback-controlled NTM stabilization on ASDEX Upgrade
13					P. Platania	IFP-CNR, Italy	BEAM PROPAGATION AND STRAY RADIATION IN THE ITER ECH H&CD UPPER LAUNCHER
14					D. Purohit	ITER	Instrumentation & control system architecture for ITER Electron cyclotron heating and current drive plant system
15					M. Jeong	NFRI, Korea	Development of Real-Time Neoclassical Tearing Mode Control System with ECH/ECCD in KSTAR
16					H. Takahashi	NIFS, Japan	Direct measurement of power and refracted trajectory of transmitting electron cyclotron beam through plasma on the Large Helical Device
17					Y. Yoshimura	NIFS, Japan	Long-pulse plasma discharges by upgraded ECRH system in LHD
18					S. Kubo	NIFS, Japan	Efficient ECRH mode excitation through inhomogeneous peripheral plasma in LHD
19					H. Wang	SWIP, China	Power measurement of ECRH system on HL-2A
20					P. Minashin	NFRC, Russia	A model of multi-pass absorption of external EC radiation at initial stage of discharge in ITER
21					V. Uditsev	ITER	Engineering aspects of design and integration of microwave diagnostics in ITER
22					G.S. Yun	Pohang Univ., Korea	O1-ECE Imaging of Edge-Localized Modes in the High Field Side
23					C. Sung	MIT, USA	Correlation ECE diagnostic in Alcator C-Mod
24					S. Freethy	CCFE, UK	Localised Microwave Bursts During ELM Events on MAST
25					P. Minashin	NFRC, Russia	Spectroscopic diagnostics of superthermal electrons with high-number harmonic EC radiation in tokamak reactor plasmas
26					M. Austin	Univ. of Texas, USA	High spatial resolution ECE measurements on DIII-D
27					J. Jin	KIT, Germany	Development of Mode Conversion Waveguides at KIT
28					W. Kasparek	Univ. Stuttgart, Germany	Remote-Steering Launchers for the ECRH system on the Stellarator W7-X
29					F. Mazzocchi	IFP, CNR, Italy	Diamond Window Diagnostics for Nuclear Fusion Applications - Early Concepts
30					R. Ikeda	JAEA, Japan	High Power Experiments of Multi-Frequency Gyrotron
31					H. Idei	Kyushu Univ., Japan	Research and Development of 2-frequency (110/138 GHz) FADIS for JT-60SA ECH/ECCD Experiments
32					T. Shimozuma	NIFS, Japan	Development of a Millimeter-Wave Beam Position and Profile Monitor for Transmission Efficiency Improvement in an ECRH System
33					R. Makino	NIFS, Japan	Development of power/polarization monitor in the ECRH transmission line
34					S. Ito	NIFS, Japan	Recent results of gyrotron operation in NIFS
			9:00				ECE1(Chair: M. Austin)

Abstract	Presentation
	EC18_Presentation/Apr22_am00_Austin@ecce.pdf
EC18_Abstract_Maj_2013112801.pdf	EC18_Presentation/Apr22_am01_Maj.pdf
EC18_Abstract_Koehn_2014012301.pdf	EC18_Presentation/Apr22_am02_Koehn.pdf
EC18_Abstract_Ram_2014013117.pdf	EC18_Presentation/Apr22_am03_Ram.pdf
EC18_Abstract_Westerhof_2014012701.pdf	EC18_Presentation/Apr22_am04_Westerhof.pdf
EC18_Abstract_Berkel_2014013108.pdf	EC18_Presentation/Apr22_am05_VanBerckel.pdf
EC18_Abstract_Kernbichler_2014020105.pdf	EC18_Presentation/Apr22_am06_Kernbichler.pdf
EC18_Abstract_Maruschenko_2014013128.pdf	EC18_Presentation/Apr22_pm01_Maruschenko.pdf
EC18_Abstract_Poli_2014020103r1.pdf	EC18_Presentation/Apr22_pm02_Poli.pdf
EC18_Abstract_Goodman_2014020106r1.pdf	EC18_Presentation/Apr22_pm03_Goodman.pdf
EC18_Abstract_Stober_2014013123.pdf	EC18_Presentation/Apr22_pm04_Stober.pdf
EC18_Abstract_Preynas_2014012904.pdf	EC18_Presentation/Apr22_pm05_Preynas.pdf
EC18_Abstract_TanakaH_2014013005.pdf	EC18_Presentation/Apr22_pm06_Tanaka.pdf
EC18_Abstract_Uchida_2014013106.pdf	EC18_Presentation/Apr22_pm07_Uchida.pdf
EC18_Abstract_Shevchenko_2014013110.pdf	EC18_Presentation/Apr22_pm08_Shevchenko.pdf
EC18_Abstract_Shukla_2014013101.pdf	EC18_Presentation/Apr22_pm09_Shukla.pdf
EC18_Abstract_Pinsky_2014013115.pdf	EC18_Presentation/Apr23_am01_Pinsky.pdf
EC18_Abstract_Lohr_2014013116r.pdf	EC18_Presentation/Apr23_am02_Lohr.pdf
EC18_Abstract_Schubert_2014013104.pdf	EC18_Presentation/Apr23_am03_Schubert.pdf
EC18_Abstract_Igami_2014020403.pdf	EC18_Presentation/Apr23_am04_Igami.pdf
EC18_Abstract_Nagasaki_2014013105r1.pdf	EC18_Presentation/Apr23_am05_Nagasaki.pdf
EC18_Abstract_Mishra_2014013119.pdf	EC18_Presentation/Apr23_am06_Mishra.pdf
EC18_Abstract_Idei_2014013122.pdf	EC18_Presentation/Apr23_am07_Idei.pdf
EC18_Abstract_Nishitara_2014013122.pdf	EC18_Presentation/Apr23_am08_Nishitara.pdf
EC18_Abstract_Taylor_2014011703.pdf	EC18_Presentation/Apr23_pm01_Taylor.pdf
EC18_Abstract_Pandya_2014013107.pdf	EC18_Presentation/Apr23_pm02_Pandya.pdf
EC18_Abstract_Subhash_2014012401.pdf	EC18_Presentation/Apr23_pm03_Subhash.pdf
EC18_Abstract_Alhajar_2014011601.pdf	not yet available
EC18_Abstract_Lin-Liu_2014013003.pdf	EC18_Poster/EC18_Poster_Lin-Liu.pdf
EC18_Abstract_Murakami_2014013111.pdf	EC18_Poster/EC18_Poster_Murakami.pdf
EC18_Abstract_Farina_2014013125.pdf	EC18_Poster/EC18_Poster_Farina.pdf
EC18_Abstract_Taylor_2014011704.pdf	EC18_Poster/EC18_Poster_Taylor.pdf
EC18_Abstract_Wu_2014012401r1.pdf	EC18_Poster/EC18_Poster_Wu.pdf
EC18_Abstract_WangX_2014012905.pdf	EC18_Poster/EC18_Poster_WangX.pdf
EC18_Abstract_Seok_2014013004.pdf	EC18_Poster/EC18_Poster_Seok.pdf
EC18_Abstract_Decker_2014013102.pdf	EC18_Poster/EC18_Poster_Decker.pdf
EC18_Abstract_Bae_2014013114.pdf	EC18_Poster/EC18_Poster_Bae.pdf
EC18_Abstract_Jeong_2014013118r1.pdf	EC18_Poster/EC18_Poster_Jeong.pdf
EC18_Abstract_Stober_2014013124.pdf	EC18_Poster/EC18_Poster_Stober.pdf
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EC18_Abstract_Takahashi_2014020402.pdf	EC18_Poster/EC18_Poster_Takahashi.pdf
EC18_Abstract_Yoshimura_2014020407.pdf	EC18_Poster/EC18_Poster_Yoshimura.pdf
EC18_Abstract_Kubo_2014020408.pdf	EC18_Poster/EC18_Poster_Kubo.pdf
EC18_Abstract_WangH_2014013001r1.pdf	EC18_Poster/EC18_Poster_WangH.pdf
EC18_Abstract_Minashin_2014020100.pdf	EC18_Poster/EC18_Poster_Minashin_ECabs.pdf
EC18_Abstract_Uditsev_2014012903.pdf	EC18_Poster/EC18_Poster_Uditsev.pdf
EC18_Abstract_Yun_2014013002.pdf	EC18_Poster/EC18_Poster_Yun.pdf
EC18_Abstract_Sung_2014013103.pdf	EC18_Poster/EC18_Poster_Sung.pdf
EC18_Abstract_Freethy_2014013122.pdf	EC18_Poster/EC18_Poster_Freethy.pdf
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EC18_Abstract_Kasparek_2014020110.pdf	EC18_Poster/EC18_Poster_Kasparek.pdf
EC18_Abstract_Mazzocchi_2014012402.pdf	EC18_Poster/EC18_Poster_Mazzocchi.pdf
EC18_Abstract_Ikeda_2014013120.pdf	EC18_Poster/EC18_Poster_Ikeda.pdf
EC18_Abstract_Idei_2014013121.pdf	EC18_Poster/EC18_Poster_Idei.pdf
EC18_Abstract_Shimozuma_2014020404.pdf	EC18_Poster/EC18_Poster_Shimozuma.pdf
EC18_Abstract_Makino_2014020405.pdf	EC18_Poster/EC18_Poster_Makino.pdf
EC18_Abstract_Ito_2014020406.pdf	EC18_Poster/EC18_Poster_Ito.pdf

24-Apr	1	0:25	9:00 9:25	H. Tsuchiya	NIFS, Japan	Digital Correlation ECE Measurement Technique with a Giga Hertz Sampling Digitizer
	2	0:25	9:25 9:50	G.S. Yun	Postech, Korea	Multiple flux tubes driven by ECH on or inside q=1 surface of sawtoothnig KATAR
	3	0:25	9:50 10:15	H. van Brand	DIFFER.	Detection of MHD instabilities with ECE
			10:15			Poster
			10:15 11:15			
			12:00 17:30			Excursion
			18:30 20:30			Banquet
			9:00			Technology1 (Chair W. Kasperek )
	1	0:40	9:00 9:40	Y. Oda	JAEA, Japan	A study of mode purity improvement in the ITER relevant transmission line
	2	0:25	9:40 10:05	F. Albajar	F4E, Spain	Status of Europe's contribution to the ITER EC system
3	0:25	10:05 10:30	G. Gantenbein	KIT, Germany	Status and progress of the European ITER gyrotron development	
4	0:25	10:30 10:55	K. Felch	CPI, USA	Recent Tests on 117 GHz and 170 GHz Gyrotrons	
		10:55 11:05			Break	
		11:05			Technology2 (Chair K. Felch )	
5	0:25	11:05 11:30	J. Jelonek	KIT, Germany	From W7-X Towards a Gyrotron Design for DEMO: Ongoing Research and Development at KIT	
6	0:25	11:30 11:55	G. Denisov	IAP, Russia	Development in Russia of Gyrotrons for Fusion, Status and New Trends	
7	0:25	11:55 12:20	V.E. Zapevalov	IAP, Russia	Preliminary design of powerful gyrotrons for IGNITOR and DEMO	
8	0:25	12:20 12:45	T. Kobayashi	JAEA, Japan	Development of a dual frequency (110/138 GHz) gyrotron for JT-60SA and its extension to an oscillation at 82 GHz	
		12:45 14:15			Lunch Break	
		14:15			Technology3 (Chair K. Felch )	
1	0:25	14:15 14:40	W. Kasperek	Univ. Stuttgart, Germany	Development of Resonant Diplexers for high-power ECRH -Status, Applications, Plans	
2	0:25	14:40 15:05	D. Wagner	IPP-Garching, Germany	A Multifrequency Notch Filter for Millimeter Wave Plasma Diagnostics Based on Photonic Bandgaps in Corrugated Circular Waveguides	
		15:05 15:25			Break	
		15:25			Summary (Chair S. Kubo )	
3.1	0:15	15:25 15:40			Theory (N. Maruschchenko)	
3.2	0:15	15:40 15:55			ECRH/ECCD (K. Nagasaki)	
3.3	0:15	15:55 16:10			ECE(incl.ITER) (G. Taylor)	
3.4	0:15	16:10 16:25			Technology (G. Denisov)	
		16:25 16:35			Closing	

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50	<a href="#">EC18_Abstract_Brand_2014013113.pdf</a>	<a href="#">EC18_Presentation/Apr24_am03_vdBrand.pdf</a>
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58	<a href="#">EC18_Abstract_Oda_2014020301.pdf</a>	<a href="#">EC18_Presentation/Apr25_am01_Oda.pdf</a>
59	<a href="#">EC18_Abstract_Alajar_2014020107L.pdf</a>	<a href="#">EC18_Presentation/Apr25_am02_Alajar_AnteresdeL.pdf</a>
60	<a href="#">EC18_Abstract_Gantenbein_2014013006.pdf</a>	<a href="#">EC18_Presentation/Apr25_am03_Gantenbein.pdf</a>
61	<a href="#">EC18_Abstract_Felch_2014012801.pdf</a>	<a href="#">EC18_Presentation/Apr25_am04_Felch.pdf</a>
62	<a href="#">EC18_Abstract_Jelonek_2014012501.pdf</a>	<a href="#">EC18_Presentation/Apr25_am05_Jelonek.pdf</a>
63	<a href="#">EC18_Abstract_Denisov_2014020201.pdf</a>	<a href="#">EC18_Presentation/Apr25_am06_Denisov.pdf</a>
64	<a href="#">EC18_Abstract_Zapevalov_2014013101.pdf</a>	<a href="#">EC18_Presentation/Apr25_am07_Zapevalov.pdf</a>
65	<a href="#">EC18_Abstract_Kobayashi_2014020401.pdf</a>	<a href="#">EC18_Presentation/Apr25_am08_Kobayashi.pdf</a>
66	<a href="#">EC18_Abstract_Kasperek_2014020108.pdf</a>	<a href="#">EC18_Presentation/Apr25_pm01_Kasperek.pdf</a>
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