

## Wednesday, June 6

09:30	Opening	Malaquias, A.	IAEA	
<b>EC Experiments I Chair: S. Cirant</b>				
09:50 + 25'	Plasma Stability Enhancement using EC-RH/CD in ASDEX Upgrade	Manini, A.	Max-Planck-Institut für Plasmaphysik, Garching, Germany	7
10:15 + 25'	Requirements for Alignment of ECCD for NTM Stabilization in ITER	La Haye, R. J.	General Atomics, San Diego, CA, USA	8
10:40 + 30'	30' Break			
11:10 + 25'	First experiments of plasma start-up assisted by ECRH on Tore Supra	Bucalossi, J.	Centre d'études de Cadarache, Saint-Paul-lez-Durance, France	9
11:35 + 25'	Experiments with Real-time controlled ECW experiments on the TCV Tokamak	Alberti, S.	Centre de Recherches en Physique des Plasmas, Lausanne, Switzerland	10
12:00 + 115'	115' Lunch			
<b>EC Experiments I/EC Wave Physics I Chair: Saibene</b>				
13:55 + 25'	Integrated Modelling of ITER Scenarios with ECCD	Giruzzi, G.	Centre d'études de Cadarache Saint-Paul-lez-Durance, France	11
14:20 + 25'	Electron Cyclotron Current Drive Predictions for ITER: comparison of different models	Marushchenko, G.	Max-Planck-Institut für Plasmaphysik (IPP), Greifswald, Germany	12
14:45 + 30'	30' Break			
<b>ITER EC System I Chair: Sakamoto</b>				
15:15 + 25'	Design status of the ITER upper port launcher	Henderson, M. A.	Centre de Recherches en Physique des Plasmas, Lausanne, Switzerland	13
15:40 + 25'	Development of ITER Equatorial EC Launcher for Reliability Improvement	Takahashi, K.	Japan Atomic Energy Agency, Naka, Ibaraki, Japan	14
16:05 + 25'	Recent developments of the Upper port ECH&CD launcher systems for ITER based on the remote steering concept	Bongers, W. A.	FOM Institute for Plasma Physics "Rijnhuizen", The Netherlands	15
16:30 + 25'	Ten Years of Experience in Integrated Control of the Multi-Megawatt ECW system on the TCV Tokamak	Goodman, T. P.	Centre de Recherches en Physique des Plasmas, Lausanne, Switzerland	16
16:55	End of session			
17:00	IAC Meeting			
19:30	Informal Banquet at a Viennese Heuriger near Beethoven's home			

## Thursday, June 7

### *Gyrotrons I Chair: Thumm*

09:00 + 25'	Development in Russia of High Power Gyrotrons for Fusion	Denisov, G. G.	Institute of Applied Physics of RAS, Nizhny Novgorod, Russian Federation	17
09:25 + 25'	Operating experience on six, 110 GHz, 1 MW gyrotrons for ECH applications	Felch, K. L.	Communications and Power Industries, Palo Alto, CA, USA	18
09:50 + 25'	Demonstration of 1MW high efficiency oscillation on 170 GHZ CW Gyrotron	Sakamoto, K.	Japan Atomic Energy Agency (JAE), Naka, Ibaraki, Japan	19
10:15 + 30'	30' Break			

### *Gyrotrons II Chair: Temkin*

10:45 + 25'	Status of the 2 MW, 170 GHz Coaxial Cavity Gyrotron for ITER	Piosczyk, B. A.	Forschungszentrum Karlsruhe, Karlsruhe, Germany	20
11:10 + 25'	Gyrotron Source System for ITER Plasma start up	Rao, S. L.	Institute for Plasma Research Near Indira Bridge, Bhat, Gandhinagar, India	21
11:35 + 25'	Advanced Gyrotron Collector Sweeping with smooth power distribution	Erckmann, V.	Max-Planck-Institut für Plasmaphysik (IPP), Greifswald, Germany	22
12:00 + 25'	Window Development at IAP?	Denisov, G. G.	Institute of Applied Physics of RAS, Nizhny Novgorod, Russian Federation	
12:25 + 75'	75' Lunch			

### *ITER EC System II Chair: Kasperek*

13:40 + 25'	Beam characteristics including general astigmatism effects in the Remote Steering ITER ECRH Upper Launcher	Moro, A.	Istituto di Fisica del Plasma, Milano, Italy	23
14:05 + 25'	Numerical calculations of beam patterns for the ITER ECRH Upper Launcher	Platania, P.	Istituto di Fisica del Plasma, Milano, Italy	24
14:30 + 25'	Performance Evaluation of the Remote-Steering Option for the ITER EC Upper Launcher	Poli, E.	Max-Planck-Institut für Plasmaphysik, München, Germany	25
14:55 + 25'	Physics analysis of the ITER ECW system for an optimized performance	Ramponi, G.	Istituto di Fisica del Plasma, Milano, Italy	26
15:20 + 30'	30' Break			

### *Transmission Lines I Chair: Verhoeven*

15:50 + 25'	Optimum Corrugations for Low-Loss Square and Cylindrical Waveguides	Plaum, B. M.	Institut für Plasmaforschung der Universität Stuttgart, Stuttgart, Germany	27
16:15 + 25'	Design of the ITER Electron Heating and Current Drive Waveguide Transmission Line	Rasmussen, D. A.	US ITER Project Office Oak Ridge National Laboratory Oak Ridge, TN, USA	28
16:40 + 25'	Estimation of the loss in the ECH Transmission lines for ITER	Temkin, R. J.	Plasma Science and Fusion Center, MIT Building, Cambridge, MA, USA	29
17:05 + 25'	FADIS, a fast switch and combiner for high-power millimeter wave beams.	Kasperek, W.	Institut für Plasmaforschung der Universität Stuttgart, Stuttgart, Germany	30
17:30	End of session			

## Friday, June 8

### *EC Wave Physics II Chair: Giruzzi*

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09:00 + 25'	A general method for relativistic plasma dielectric tensor evaluation	Pavlov, Sergiy	Institute of Plasma Physics, National Sciences Center "Kharkov", Institute of Physics and Technology, Kharkov, Ukraine	31
09:25 + 25'	Relativistic Effects in Electron Cyclotron Resonance Heating and Current Drive	Ram, A. K.	Plasma Science and Fusion Center, MIT Building, Cambridge, MA, USA	32
09:50 + 25'	Electron cyclotron heating modelling in large tokamaks and ITER with 3D full wave code	Vdovin, V. L.	RRC Kurchatov Institute, Nuclear Fusion Institute, Moscow, Russian Federation	33
10:15 + 30'	30' Break			

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### *ITER System III Chair: Litvak*

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10:45 + 25'	Nuclear analyses for the ITER ECRH launcher	Serikov, A.	Forschungszentrum Karlsruhe Association, Karlsruhe, Germany	34
11:10 + 25'	Thermal and electromagnetic study of the UPP for the ECRH in ITER	Strauss, D.	Forschungszentrum Karlsruhe Association, Karlsruhe, Germany	35
11:35 + 25'	Structural system of the ECH Upper Port Plug for ITER	Heidinger, R. W.	Forschungszentrum Karlsruhe Association, Karlsruhe, Germany	36
12:00 + 25'	Interface issues associated with the ITER ECH system	Henderson, M. A.	Centre de Recherches en Physique des Plasmas, Lausanne, Switzerland	37
12:25 + 65'	65' Lunch			

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### *EC Experiments II Chair: Erckmann*

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13:30 + 25'	The advantage of early application of electron cyclotron waves for the suppression of tearing modes: Assessment for ASDEX Upgrade and results from TEXTOR	Lazaros, A.	School of Electrical and Computer Engineering, Athens, Greece	38
13:55 + 25'	Locked Neoclassical Tearing Mode Control on DIII-D by ECCD and Magnetic Perturbations	Volpe, F. (presented by La Haye, R. J.)	General Atomics, San Diego, CA USA	39
14:20 + 25'	Modeling and control for fusion plasma stabilization by means of a mechanical ECRH launcher at TEXTOR	Hennen, B. A.	Eindhoven University of Technology, Eindhoven, Netherlands	40
14:45	Status of the New Multi-Frequency ECRH System for ASDEX Upgrade	Wagner, D. H.	Max-Planck-Institut für Plasmaphysik, Garching, Germany	41
15:10 + 30'	30' Break			

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### *Summary Session Chair: Luce*

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15:40 + 110'	Summaries and Discussion			
17:30	End of session			

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