

ECRH workshop 2025

Tuesday 4 February 2025

Session: EC Plant Operation (09:00 - 10:40)

-Conveners: Heinrich Laqua

time	[id] title	presenter
09:00	[1] Welcome	SANCHEZ ARCOS, Paco
09:10	[2] Increasing the Reliability of the W7-X ECRH System by Controlling the Total ECRH Power	KRIER, Laurent
09:40	[3] The Foreseen Operational Management of DTT ECH System	GRANUCCI, Gustavo
10:10	[4] Compliance with the electrical standards for the commissioning of EC power supplies	ALBAJAR, Ferran

Session: Gyrotrons R&D Part 1 (11:10 - 12:40)

-Conveners: Jean-Philippe Hogge

time	[id] title	presenter
11:10	[5] Future-Oriented R&D for High-Power Fusion Gyrotrons at KIT	ILLY, Stefan
11:40	[6] Research Towards Megawatt-Class Fusion Gyrotrons Operating at the Second Harmonic of the Cyclotron Frequency	FEUERSTEIN, Lukas
12:10	[7] Towards the Verification and Validation of a Thermo-Hydraulic and Mechanical Model for High-Power Gyrotron Cavities	BERTAZZONI, Ruggero Guido

Session: Gyrotrons R&D Part 2 (14:00 - 16:00)

-Conveners: Ferran Albajar

time	[id] title	presenter
14:00	[8] Recent Investigations on higher power and higher frequency gyrotrons at NKUA	IOANNIDIS, Zisis
14:30	[9] Advancements in Gyrotron Theory, Design, and Technology at ETH Zurich	PAGONAKIS, Ioannis
15:00	[10] Progress on W7-X Upgrades: Advancing Towards 2 MW Operation	MONDAL, Debasish
15:30	[11] Design of a gyrotron for future high field fusion application	SCHMIDT, André

Wednesday 5 February 2025

Session: Power Supplies and Transmission Lines (09:00 - 10:30)

-Conveners: Lena Delpech

time	[id] title	presenter
09:00	[12] PS technical specification for the first COMPASS-U gyrotron	BOGAR, Ondrej
09:30	[13] Concept and challenges of the DTT ECH transmission	FANALE, Francesco
10:00	[14] Connection Line for DTT gyrotron test	GARAVAGLIA, Saul

Session: EC Diagnostics (11:00 - 12:30)

-Conveners: Zisis Ioannidis

time	[id] title	presenter
11:00	[15] Towards a standard Diagnostic for the not absorbed Electron Cyclotron Resonance Heating power at Wendelstein 7-X	ZIMMERMANN, Jonas
11:30	[16] EC stray radiation studies for JT-60SA	Dr SOZZI, Carlo
12:00	[17] Plasma start-up with low ECRH power at W7-X	POLEI, Niklas Simon

Session: Test facilities (14:00 - 15:30)

-Conveners: Caroline Darbos

time	[id] title	presenter
14:00	[18] MISTRAL experiments in support of W7-X, ITER and JT-60SA	OOSTERBEEK, Johan Willem
14:30	[19] Proposal for an ECH Test facility at DTT site	ROMANO, Afra
15:00	[20] The ECRH facilities at the Swiss Plasma Center: TCV and FALCON	BRAUNMÜLLER, Falk

Thursday 6 February 2025

Session: EC launchers (09:00 - 10:30)

-Conveners: Stefan Illy

time	[id] title	presenter
09:00	[21] Integrated RF Analysis Strategy of the ITER ECRH Upper Launcher	CARBONELL, Eduard JULIA, Sandra
09:30	[22] Concepts for cooled Mirrors of the DTT ECH Launchers	BRUSCHI, Alessandro
10:00	[23] Towards a frictionless steering mechanism for the actively cooled DTT ECRH launching mirror	BUSI, Daniele

Session: EC and EBW, longer term view (11:00 - 12:40)

-Conveners: Mark Henderson

time	[id] title	presenter
11:00	[24] EC system design challenges for the Volumetric Neutron Source	FRANKE, Thomas
11:30	[25] ITER EU EC Gyrotrons status and next steps	SANCHEZ, Paco
12:00	[26] EBW heating for high density discharges	BOGAR, Ondrej
12:20	[27] Toward Fusion Power Plant Relevant HCD systems	HENDERSON, Mark

Session: Final Summary and conclusions (12:40 - 13:00)

-Conveners: Paco Sanchez Arcos