



# 12th IAEA Technical Meeting on Control, Data Acquisition and Remote Participation for Fusion Research

## Monday 13 May 2019

**Poster: Plasma Control Posters (15:05-17:05)**

[id] title	presenter	board
[489] WestBox: an object-oriented software component for WEST CODAC	CAULIER, GILLES	P/1-2
[506] Low-risk Beginning of the Density Feedback Control in KSTAR	Dr JUHN, June-Woo	P/1-3
[512] Real-time classification of L-H transition and ELM in KSTAR	SHIN, Giwook	P/1-4
[516] The MAST Upgrade Plasma Control System	MCARDLE, Graham	P/1-5
[532] Design and development plan for control and data acquisition system of Thailand Tokamak 1 (TT1)	TAMMAN, Arlee	P/1-6
[526] Development of high-current power supplies for the TCABR tokamak	Prof. SANTOS, Alessandro	P/1-7
[499] Development of a new CODAS for the TCABR tokamak	Dr PIRES DE SÁ, Wanderley	P/1-8
[437] Preparations for the control of HL-2M first plasma campaign	Dr LI, B	P/1-9
[472] Use of Actuator management in ASDEX Upgrade control	Dr ONDREJ KUDLACEK, Ondrej	P/1-10
[525] An overview of the upgrade of the TCABR tokamak	Prof. CANAL, Gustavo	P/1-12
[454] Determination of Radiated Power Density Profile Using Bolometer Data for DT Baseline Scenario at JET	STANKUNAS, Gediminas	P/1-13

**Wednesday 15 May 2019****Poster: MCR & DTI (15:25-18:00)**

[id] title	presenter	board
[433] The Implementation and operation of the 4th version of KSTAR Fast Interlock System	Mr KIM, Myungkyu	P/1-1
[444] Real-time ELM recognition system based on deep learning	Prof. XIA, Fan	P/2-1
[509] New decimation method for fusion research data	CASTRO ROJO, Rodrigo	P/2-2
[455] A database dedicated to development of machine learning based disruption predictors	Mr WU, Qiqi	P/2-3
[494] Implementation of an FPGA-based DAQ and Processing system for Neutron-Diagnostics using Nominal Device Support, OpenCL and MTCA	Mr ASTRAIN, Miguel	P/2-4
[505] Real-Time Processing the MSE data with GPGPU in KSTAR	LEE, Taegu	P/2-5
[520] Exploring MDSplus data acquisition and analysis software with JupyterLab	SANTORO, Fernando	P/2-6
[458] Development of real time framework for parallel streaming data processing	Dr KWON, giil	P/3-1
[477] Evaluation of the Backup Signal-Processing System of the KSTAR Quench Detection System	YONEKAWA, Hirofumi	P/3-2
[491] Realization of the requirements for a safe operation of Wendelstein 7-X	SCHACHT, Jörg	P/3-3
[486] First experience with the W7-X Fast Interlock System	VILBRANDT, Reinhard	P/3-4
[514] Development of the JT-60SA Experiment Database System	Ms YAMAZAKI, Riho	P/3-6
[504] Reliable Local Controller for ITER Coil Power Supply	Mr LEE, Chungsan	P/3-7
[517] W7-X Logbook REST API for processing metadata and experiment data enrichment at the Wendelstein 7-X stellarator	GRAHL, Michael	P/3-8
[469] EAST MDSplus Log Data Management System	WANG, Feng	P/3-9

**Thursday 16 May 2019****Poster: DASP & RPVL (13:30-16:00)**

[id] title	presenter	board
<b>[440] Plasma Diagnostics in the Optical and X-Ray Regions on the IEC Plasma Device</b>	Dr ELARAGI, Gamal	P/4-1
<b>[442] Multi-channel analog lock-in system for real-time motional Stark effect measurements</b>	WI, Hanmin	P/4-2
<b>[452] Integration of data acquisition devices in the ITER Real-Time Framework using Nominal Device Support</b>	Dr ESQUEMBRI, Sergio	P/4-3
<b>[463] Development of Local-Imaging and High-Speed Visible Diagnostics for Real-Time Plasma Boundary Reconstruction of EAST</b>	Prof. SHEN, Biao	P/4-4
<b>[479] Standardization of software device driver implementation for data acquisition and timing devices in ITER CODAC Core System: Nominal Device Support</b>	Mr ASTRAIN, Miguel	P/4-5
<b>[515] Framework for development of software for laboratory equipment and experimental setup subsystems integrated into large scale DAQ systems (LabBot)</b>	Mr CHERNAKOV, Alexandr	P/4-6
<b>[481] Graphic interactive environment for remote data analysis and visualization with a view on ITER</b>	Dr FABREGAS, Ernesto	P/5-1
<b>[487] Web-based Streamed Waveform Display using MDSplus events and Node.js</b>	MANDUCHI, Gabriele	P/5-2
<b>[519] The Information Technology tools for remote participation and remote experiment control of WEST</b>	HUTTER, Thierry	P/5-3