SOFT 2018

Thursday, 20 September 2018

P4: Poster Session - Posters Hall - ATA Hotel Naxos Beach Resort (11:00 - 13:00)

[id] title	presenter	board
[530] P4.195 Stress-strain characterization of abs polymer at cryogenic temperatures	OTAROLA, Carlos	
[457] P4.121 Testing of a high temperature radiatively cooled Li/Ta heat pipe in Magnum-PSI	Dr MATTHEWS, Guy	
[464] P4.128 Locally adapted heat transfer using variable height rib structures for Optimization of HCPB DEMO FW cooling channels	KLEIN, Christine	
[466] P4.130 Characterisation of JET ILW divertor plasma facing surface materials by temperature-QMS analysis	Dr HALITOVS, Mihails	
[545] P4.210 Fatigue behaviour of prospective fusion oxide dispersion strengthened CoCrFeNiMn high entropy alloy	CHLUP, Zdenek	
[431] P4.095 Design and thermal coupling analysis of vpi mould for iter pf6 double pancake	ZHAOHUI, Yan	
[561] P4.226 The monitoring and determination of Beryllium contamination at HELCZA facility	TOUPAL, Lukas	
[347] P4.011 An innovative helicon plasma source for an alternative concept of DEMO negative ion beam injector	JACQUIER, Rémy	
[348] P4.012 SPIDER BEAM SOURCE READY FOR OPERATION	PAVEI, Mauro	
[371] P4.035 Command and control system for STAR X-Ray source	Dr CUCÈ, Daniela	
[338] P4.002 Characterization of the input beam to RFQ of the Linear IFMIF Prototype Accelerator (LIPAc)	AKAGI, Tomoya	
[419] P4.083 Concept design of high power quench protection circuit on China Fusion Engineering Test Reactor	Dr LI, Hua	
[340] P4.004 Characterization of JET neutron field for radiation studies in DD DT and TT plasmas	Dr LENGAR, Igor	
[342] P4.006 Design review for the Italian Divertor Tokamak Test facility	ALBANESE, Raffaele	
[345] P4.009 Technological challenges for the design of the RFX-mod2 experiment	PERUZZO, Simone	
[349] P4.013 Effect of a magnetic cusp configuration on ion species ratio in a NBI ion source	JEONG, Seung Ho	
[351] P4.015 System of 28 GHz ECHCD with beam focusing launcher on the QUEST spherical tokamak	IDEI, Hiroshi	
[353] P4.017 An overview of the in-vessel ICRF-diagnostics in the ASDEX-Upgrade tokamak	FAUGEL, Helmut	
[356] P4.020 Design of the small scale prototype accelerator for KSTAR negative-ion-based NBI	KIM, Tae-Seong	
[358] P4.022 Design of the Large Current Hydrogen Negative Ion Source by using Sheet Plasma	ENDO, Ryuta	

[359] P4.023 The fabrication and assembly of the beam source for the SPIDER experiment	MASIELLO, Antonio
[360] P4.024 Electrical integration of two 1MW/2s dual-frequency gyrotrons into the EC-system of the TCV tokamak	Dr SIRAVO, ugo
[365] P4.029 Enhanced operation of the EU EC Test Facility	Dr FASEL, Damien
[367] P4.031 New features of the ECH control system in DIII-D and impact of power modulation on collector loading	TORREZAN, Antonio
[370] P4.034 Modeling of ITER initiation scenarios using IMAS framework	JUNG, Laurent
[372] P4.036 Real Time Assessment of the Magnetic Diagnostic System in RFX-mod	Dr TOIGO, Vanni
[377] P4.041 Plasma shape control assessment for JT-60SA using the CREATE tools	CORONA RIVERA, Lilia Domenica
[375] P4.039 Robust control of the current profile and plasma energy in EAST	WANG, Hexiang
[380] P4.044 Operational experience And evolution of the Real Time Protection Sequencer on JET	Dr LOMAS, Peter
[382] P4.046 Runaway electrons diagnostics using segmented semiconductor detectors	SVIHRA, Peter
[385] P4.049 Effect of temperature on magnetic measurements in KSTAR tokamak	KIM, HEUNGSU
[390] P4.054 On multistage development of ITER High Field Side Reflectometry diagnostic module design based on thermal stress numerical assessment	MAMCHITS, Dmitrii
[393] P4.057 Plasma cleaning of ITER diagnostic mirrors with coaxial $\lambda/4$ water-cooling line	DMITREIV, Artem
[397] P4.061 Steady-state magnetic diagnostic for ITER and beyond	DURAN, Ivan
[416] P4.080 A 15kA solid circuit breaker for the switch network unit of the EAST Tokamak	WANG, Shusheng
[401] P4.065 The evaluation of server hardware for the fast online processing of X-ray impurities diagnostics in the WEST	Dr KRAWCZYK, Rafal
[405] P4.069 Structural Thermal Optical Performance analysis for full system optical performance assessment in complex environments	VERLAAN, Ad
[406] P4.070 Performance evaluation of a hypothetical core density fluctuation measurement on the ITER diagnostic beam.	ASZTALOS, Ors
[408] P4.072 Electromagnetic loads on ITER low field Side reflectometer in-vessel components	ZOLFAGHARI, Ali
[422] P4.086 HTS CroCo – Demonstration of long length fabrication	FIETZ, Walter H.
[430] P4.094 Mechanical analysis of the European DEMO central solenoid pre-load structure and coils	Dr NUNIO, Francois
[409] P4.073 Doppler coherence imaging of impurity flows in the divertor of tokamaks and stellarators	GRADIC, Dorothea
[412] P4.076 Extension of the high current power supplies of ASDEX Upgrade – The design of a new thyristor converter	ARDEN, Nils
[413] P4.077 Venturi flowmeters for the control of the ITER magnets	Dr PONCET, Jean-Marc
[414] P4.078 Implementation Details of an Upgrade to the EAST Poloidal Field Power Supply DAQ System	ZHU, Lili
[415] P4.079 Research on Synchronization Technology of High-power Converters	WANG, Zhenshang

SOF1 2018 / Programme	Thursday, 20 September 20
[418] P4.082 Design and optimization of vacuum pressure impregnation mould for large scale superconducting coils	ZHONGHUI, Yang
[420] P4.084 Design a Suitable Test Scheme for Triggering Bypass Protection Test of ITER PF Converter Unit	ZHANG, xiuqing
[421] P4.085 Investigations on stable operational regions for SPIDER RF oscillators	GASPARINI, Ferdinando
[424] P4.088 AC loss and stability analysis of EAST superconducting magnet in ELM triggering	XI, Weibin
[426] P4.090 Development of Supervisory Control System for Magnet Power Supplies in JT-60SA	HATAKEYAMA, Shoichi
[432] P4.096 Ultrasonic C-scanning technology application for low-temperature superconducting joint box material of ITER current lead	JIANG, Beiyan
[427] P4.091 MESS: a new Magnetic Energy Storage Scheme for improving the power handling in fusion experiments a conceptual study	PIOVAN, Roberto
[428] P4.092 The reactive power demand in DEMO: estimations and mitigation strategies	FERRO, Alberto
[437] P4.101 Conceptual design of the power supply systems for the Divertor Tokamak Test facility	MINUCCI, Simone
[447] P4.111 High heat flux qualification tests of HELCZA facility	JILEK, Richard
[439] P4.103 Experimental study on anti-fatigue performance for TIG Welding and EB welding of RAFM steel plate	LIU, Sumei
[441] P4.105 Studies of advanced divertor concepts and engineering design issues for a DEMO reactor	ASAKURA, Nobuyuki
[442] P4.106 Dynamics evaluation of hydrogen isotope behavior in tungsten simulating damage distribution at operating condition	NAKATA, Moeko
[443] P4.107 Additive manufacturing for realising a tailored tungsten-copper composite plasma-facing component heat sink	V. MÜLLER, Alexander
[444] P4.108 Development of 30 kW liquid metal handling system for plasma-facing experiments at DIFFER	MANISCALCO, Matthew
[446] P4.110 Hydrogen and deuterium behavior on gas driven permeation through tungsten deposition layer on nickel plate	MORI, Daisuke
[448] P4.112 Measures to overcome deep crack issues in the tungsten tiles of the ASDEX Upgrade divertor	Dr ZAMMUTO, Irene
[451] P4.115 Depth profiles of deuterium in W coatings from the JET divertor measured by Glow Discharge Optical Emission Spectrometry	BAIASU, Flaviu
[454] P4.118 Reactor studies of hydrogen isotopes interaction with lithium CPS using dynamic sorption technique	TAZHIBAYEVA, Irina
[459] P4.123 DEMO First Wall misalignment study	VIZVARY, Zsolt
[460] P4.124 High heat flux test results for a thermal break DEMO divertor target and subsequent design and manufacture development	Dr LUKENSKAS, Adomas
[463] P4.127 Development of self-passivating W alloy / Eurofer brazed joints	SANCHEZ, Maria
[465] P4.129 Investigation of beryllium damage under transient plasma heat loads in wide range of temperatures and heat loads	KUPRIYANOV, Igor
[469] P4.133 Study of the ports effects on the CFETR radiation shielding	LU, Yudong
[470] P4.134 Numerical design approaval of port liner and bellows protection	CARLS, André

SOFT 2018 / Programme	Thursday, 20 September 2
[471] P4.135 A sophisticated remote maintenance method for the target assembly of Advanced Fusion Neutron Source	NAKAMURA, Makoto
[472] P4.136 New methodology to improve execution efficiency and safety in remote maintenance tasks	Dr COLOMA, Sofia
[474] P4.139 Development and Validation of Cryostat Finite Element Model with Unique FE Method	SHARMA, Tarun Kumar
[476] P4.141 Deformation Modeling and Compensation Control of Manipulators for DEMO	LI, Ming
[477] P4.142 Heat Management for Water-Hydraulic Systems at ITER Remote Handling	VÄYRYNEN, Jukka
[478] P4.143 Water quality and cleanliness effects on water hydraulic components in ITER remote handling maintenance systems	MATTILA, Jouni
[481] P4.146 Preliminary source terms investigation for decontamination of fusion reactor in-vessel component maintenance process in hot cell	GONG, Zheng
[514] P4.179 Separation and recycle of Plasma Enhancement Gases using a CMS membrane	SERRA, Emanuele
[484] P4.149 Electromagnetic and structural analysis of COMPASS Upgrade vacuum vessel during disruptions	YANOVSKIY, Vadim
[485] P4.150 Parametric Modelling of Remote Maintenance Strategies and Concepts for EU DEMO	FARQUHAR, Iain
[486] P4.151 A simulation framework for dynamic analysis of flexible robotic mechanisms in DEMO remote maintenance	GRAZIOSO, Stanislao
[487] P4.152 The DTT device: advances in conceptual design of first wall vessel and cryostat structures	Dr DI GIRONIMO, Giuseppe
[489] P4.154 Progress on reliability of remote maintenance concept for Japan's fusion DEMO reactor	UTOH, Hiroyasu
[490] P4.155 A design study of vacuum vessel and pumping system for COMPASS-U Tokamak	JERAB, Martin
[493] P4.158 Use of morphing techniques within weld distortion analysis to simulate the size customization of parts during assembly and welding of the Vacuum Vessel PS3 outer shell	Dr RODRÍGUEZ ORDÓÑEZ, Eduardo
[494] P4.159 Deep feature based detection and location of the damaged first wall for EAST Tokamak	Dr ZHANG , Xuanchen
[495] P4.160 Lithium-vaporization properties of Li8ZrO6 at medium temperature in 0.01% H2/He gas flow	SHIN-MURA, Kiyoto
[496] P4.161 Fabrication of thin-walled fusion blanket components like flow channel inserts by selective laser manufacturing	KOEHLY, Christina
[498] P4.163 Investigation of Alumina Films Formed over Aluminized RAFM steels by Plasma Assisted Heat Treatments	ZALA, Arunsinh
[499] P4.164 Technical background on design of DS recombiner for fusion facility	IWAI, Yasunori
[502] P4.167 Mechanical design and first experimental results of a new multi-tube Pd-Ag membrane reactor for hydrogen isotopes separation in solid blanket concept of nuclear fusion machines	INCELLI, Marco
[504] P4.169 Neutronic analyses of the ITER TBM Port Plug with Dummy TBMs	LEICHTLE, Dieter
[507] P4.172 Fusion Technology Facilities & H3AT at UKAEA	BRENNAN, Patrick
[508] P4.173 The CIEMAT LiPb Loop for Permeation Experiments	Dr RAPISARDA, David

DE MEIS, Domenico
ANA, Radu Alexandru
NARCISI, Vincenzo
WANG, Hongyan
CATALAN, Juan-Pablo
STEFAN, Iuliana
ZAURBEKOVA, Zhanna
MORENO, Carlos
SHMAYDA, Walter
XU, Kun
HUANG, Qunying
YOSHIHASHI, Sachiko
BAROSS, Teteny
KURTZ, Richard
HADRABA, Hynek
FUJITA, Hikari
RAZDOBARIN, Alexey
Dr VANAZZI, Matteo
HUMRICKHOUSE, Paul
OYAIDZU, Makoto
NIKOLIC, Vladica
Dr QIU, Yuefeng
GHIDERSA, Bradut-Eugen
SANZ, Silvia
LI, Bin
SUN, Guomin

	J / 1
[564] P4.229 An optimized code system for activation and shut-down dose rate calculations	TRAVLEEV, Anton
[567] P4.232 Neutron flux uncertainty propagation in R2S-based shutdown dose rate calculations	ALGUACIL, Javier
[569] P4.234 Safety Important Classification of DEMO components	PINNA, Tonio
[453] P4.117 The influence of nitrogen on the deuterium retention within tungsten coatings for fusion applications	GRIGORE, Eduard
[570] P4.235 EU DEMO safety and balance of plant requirements. Issues and possible solutions	CIATTAGLIA, Sergio
[571] P4.236 Cernavoda Tritium Removal Facility – tritium supplier for fusion facilities	STEFAN, Liviu
[368] P4.032 Electromagnetic analyses of Single and Double Null configurations in DEMO device	LOSCHIAVO, Vincenzo Paolo
[455] P4.119 Enhancements in the structural integrity assessment of plasma facing components	FURSDON, Mike
[468] P4.132 Production of tungstenfibre reinforced tungsten composite by a novel continuous chemical vapour deposition process	Dr HÖSCHEN, Till
[343] P4.007 Neutral beam assisted plasma breakdown on tokamak COMPASS	Dr VARJU, Jozef
[344] P4.008 Support structure of the COMPASS-U tokamak: validation by ANSYS modelling	HROMADKA, Jakub
[392] P4.056 Integration of the TESPEL injection system at W7-X	Dr LAUBE, Ralph
[395] P4.059 Refurbishment of JET magnetic diagnostics	Dr ARTASERSE, giovanni
[355] P4.019 Development of High-Power Pulse Neutral Beam Injection System for the Versatile Experiment Spherical Torus	JUNG, Bong-Ki
[429] P4.093 An arc electrical simulation method for superconducting magnet system in safety-related fault condition	DENG, Tianbai
[357] P4.021 Commissioning of vacuum pumping system for the second KSTAR neutral beam injection system	KIM, Kwang pyo
[435] P4.099 Optimization of the cooling capacity of the cryo-magnetic system for EU DEMO at the pre-conceptual design phase	HOA, Christine
[473] P4.137 Design and analysis of dual arm robot for the intelligence maintenance of CFETR	ZHANG, Tao
[445] P4.109 Effect of Initial Condition on Seismic Analysis of the HCCR TBM-Set	KIM, Dong-Jun
[361] P4.025 Approaching final design of the ITER EC H&CD Upper Launcher	Dr STRAUSS, Dirk
[337] P4.001 Coupled seismic analyses of the ITER Tokamak Complex building and Tokamak machine	RUEDA, Fernando
[339] P4.003 The study on blowout system of EAST upper divertor	LI, Weibao
[341] P4.005 TRANSP-based optimization for tokamak scenario development	Dr WEHNER, William
[346] P4.010 Increasing the integrated power input in W7-X	BOSCH, Hans-Stephan Bosch
[350] P4.014 The 3.7GHz LHCD system on HL-2M tokamak	LU, bo
[352] P4.016 Development and improvement of KSTAR NBI2 ion sources	CHO, Wook
[354] P4.018 LHCD launcher study in KSTAR	KIM, Jeehyun
[363] P4.027 The current status of the system additional heating of the complex of TSP TRINITI and objectives of modernization for the project of tokamak Ignitor	BELOV, Alexander
	I

[364] P4.028 Development of cesium-free negative hydrogen/deuterium ion source by sheet plasma	HANAI, Keito
[366] P4.030 AUG flight simulator development	JANKY, Filip
[369] P4.033 Closed-loop simulation with Grad-Shafranov equilibrium evolution for plasma control system development	Dr WELANDER, Anders
[373] P4.037 Plasma Boundary Reconstruction in JET by Magnetic Measurements	MARTONE, Raffaele
[376] P4.040 Robust configuration of the JET real-time protection sequencer	EDWARDS, James S.
[378] P4.042 Design of real-time feedback system for detachment control in COMPASS	KHODUNOV, Igor
[379] P4.043 ST40 Data and Control	ASUNTA, Otto
[383] P4.047 Choice of the detectors for light impurities plasma studies at W7-X using C/O Monitor system	FORNAL, Tomasz
[384] P4.048 A neutron spectrometer based on diamond detector for D-D fusion neutron measurements on KSTAR	LEE, Youngseok
[386] P4.050 Polarimetric laser beam diffraction in tokamak plasma	BIEG, Bohdan
[388] P4.052 Shutter systems for various diagnostics at the Wendelstein 7-X stellarator	HÖCHEL, Klaus
[396] P4.060 Heavy ion beam probe design and operation on the T-10 tokamak	MELNIKOV, Alexander
[399] P4.063 Functional and load testing of stepping-motor hexapod for positioning of H-alpha optical components in the ITER port interspace	DRAPIKO, Evgeny
[400] P4.064 Prototyping of stepping-motor hexapod for 6 DoF positioning of optical components in the ITER port interspace	YUSOV, Alexandr
[403] P4.067 Modification of neutron emission spectrum by Alfven eigenmodes in a deuterium-tritium plasma	SUGIYAMA, Shota
[404] P4.068 Thermography of the FTU toroidal limiter during disruptions	MADDALUNO, giorgio
[407] P4.071 Thermal loads and cooling design for ITER in-port low field side reflectometer diagnostic system	ZOLFAGHARI, Ali
[411] P4.075 Nuclear analysis of the collective thomson scattering system for iter	LOPES, André
[417] P4.081 High voltage electrical system of 8.56 GHz CW klystron for electron cyclotron heating on QUEST spherical tokamak	ONCHI, Takumi
[423] P4.087 High voltage direct current power supplies for electron cyclotron resonance heating at ASDEX Upgrade	PEGLAU, Matthias
[425] P4.089 Towards the completion of the Power Supply system for Resistive Wall Modes control in JT-60SA	Dr GAIO, Elena
[433] P4.097 Design of the JT-60SA cryogenic pipe system	NATSUME, Kyohei
[434] P4.098 Tokamak coil operations by energy-conservation converters and distributed energy storage	LAMPASI, Alessandro
[436] P4.100 Analysis of the effect of a plasma disruption on the DTT Toroidal Field magnets	BONIFETTO, Roberto
[438] P4.102 Monitoring and Control of the Magnet System of JT-60SA	FUKUI, Kazuma
[450] P4.114 Simulation study of evolution of helium bubbles in bulk W with vacancies	ZHAN, Jie
[456] P4.120 CFETR Integration Design Platform: Workflow for geometry design of divertor target	MAO, Shifeng

[462] P4.126 Deuterium retention on the tungsten-coated divertor tiles of JET ITER-Like Wall in 2015-2016 campaign	LAHTINEN, Aki
[475] P4.140 Profile Tolerances influence on Cryostat Base Section	SANDHU, Sarbjeet Singh
[505] P4.170 Numerical simulations of 3D magnetohydrodynamic flows for dual-coolant lead lithium blankets	KLÜBER, Viktor
[480] P4.145 Neutronics Studies for Horizontal Lower Port Option in DEMO	FLAMMINI, Davide
[483] P4.148 DEMO Breeding Blanket temperature evaluation before remote maintenance operation	FROSI, Paolo
[491] P4.156 In-vessel viewing system prototype performance measurements and simulation of measurement quality across the ITER in-vessel components	BATES, Philip
[492] P4.157 Improvement of manufacturing jigs design for reduction of welding distortion in Vacuum Vessel PS1 through finite element analysis	Dr ORDIERES, Javier
[497] P4.162 Evaluation of conservative and innovative manufacturing routes for gas cooled Test Blanket Module and Breeder Blanket First Walls	Dr NEUBERGER, Heiko
[500] P4.165 Experimental study of liquid metal magnetohydrodynamic flows near gaps between flow channel inserts	BÜHLER, Leo
[501] P4.166 Tritium breeding capability of water cooled ceramic breeder blanket with different container designs	GWON, Hyoseong
[503] P4.168 Preliminary implementation of EU-DEMO primary heat transfer systems for HCPB breeding blanket option	TARALLO, Andrea
[506] P4.171 EU DEMO WCLL BB breeding zone cooling system design: analysis and discussion	EDEMETTI, Francesco
[509] P4.174 Lithium isotope enrichment by electrodialysis using solid lithium electrolyte	SASAKI, Kazuya
[515] P4.180 Radiation damage and helium accommodation in lithium metatitanate as a ceramic breeder material	WATERS, Samuel
[517] P4.182 Simulating gas adsorption processes via kinetic modeling	VALOUGEORGIS, Dimitris
[519] P4.184 Thermal-hydraulic and thermo-mechanical simulations of Water-Heavy Liquid Metal interactions towards the DEMO WCLL Breeding Blanket design	D'ALEO, Fedele
[524] P4.189 Multifunctional Yttrium Oxide coatings for DEMO breeding blanket concepts employing Pb-16Li eutectic	PALADINO, Boris
[525] P4.190 Development of a water-cooled blanket concept with pressure tightness against in-box-LOCA for Japan's DEMO	SOMEYA, Youji
[528] P4.193 Microstructural evolution in neutron irradiated beryllium pebbles at DEMO relevant temperatures	VLADIMIROV, Pavel
[529] P4.194 Experimental verification of dosimetry reaction rates of Co Nb Au Bi with d-Li neutrons	KWON, Saerom
[533] P4.198 Iter sixth poloidal field coil insulation qualification	CHUNYU, Wang
[536] P4.201 W-Cr and W-Ti alloys consolidated by field assisted sintering with and without carbon diffusion barrier	VEVERKA, Jakub
[531] P4.196 Improved analysis on corrosion profile of liquid lithium in 304 stainless steel by LIBS	KE, Chuan
[541] P4.206 Neutron field study of p(24)+Be source reaction using the multi-foil activation technique	STEFANIK, Milan

MONGE, Miguel Angel
BHATTACHARYA, ARUNODAYA
TANAKA, Tomoyo
HAO, Lijuan
Dr COLLING, Bethany
MACHETA, Peter
Dr FROIO, Antonio
Dr RAJ, Prasoon