

FuseNet PhD Event 2015

Monday, November 16, 2015

Poster presentations: Group 1 (12:45 PM - 3:00 PM)

-Conveners: [click to see the contributions *](#)

[id] title	presenter	board
[37] Modelling and control of RFX-mod tokamak equilibria	Mr DOMENICO, Abate	
[60] Global Modelling of Turbulence and Transport in Magnetically Confined Plasma	Mr LØITEN, Michael	
[61] Industrial engineering: Energy from Nuclear Fusion	Mr LUNGARONI, Michele	
[62] Analysis of the energy distribution of escaping suprathermal ions in neutral-beam injection phase of the TJ-II stellarator	Mr MARTINEZ, Marco	
[63] Modelling radiation damage within a fusion environment	Mr MENZIES, Luke	
[42] Plasma facing components	Mrs BEN YAALA, Marwa	
[59] Alternative target concepts for power and particle exhaust in fusion application	Mr KVON, Vladimir	
[58] Comparison of beam light and electron density fluctuations using Li-BES	Mr KRBEK, Jaroslav	
[55] Plasma Physics	Mrs HASAN, Embie	
[54] Assessment of retention of plasma components in Tungsten in the presence of neutron irradiation: multi-scale modelling approach.	Mr GRIGOREV, Petr	
[57] Development of advanced carbon based film for application in neutron detectors	Ms INZOLI, Federica	
[56] Design and operation of antennas at the ion cyclotron and lower hybrid frequencies for nuclear fusion reactors	Mr HELOU, Walid	
[51] Multi-scale thermal-hydraulic modeling for nuclear fusion reactors	Mr FROIO, Antonio	
[50] Runaway electron losses induced by various MHD events in the COMPASS tokamak	Mr FICKER, Ondřej	
[53] Thermal-hydraulic analyses of plasma facing components (Blanket modules and Divertor) of Fusion Reactors (ITER and DEMO).	GARITTA, Silvia	
[52] Development, optimization and testing of high performance cooling systems for fusion devices	Mr GAMBETTA, Giulio	
[88] 3D ECEI studies of ELMs	Ms VANOVAČ, Branka	
[89] Ion velocity measurements by LIF in IEC fusion reactor	Mr DUTCH, Bram Wolf	
[82] Coherent electromagnetic activity in TJ-II plasmas	Mr SUN, Baojun	
[83] Thermo mechanical simulation for fusion power components	Mrs SZALAI, Judit	
[80] Experimental investigation of ICRF wave field/SOL plasma interactions with RF and electrostatic probes	Mr SUAREZ LOPEZ, Guillermo	
[81] Study of RF discharge enhancement for LIBS analyses of fusion-relevant wall materials	Ms SUCHOŇOVÁ, Mária	
[84] Neutron transport and radioactive processes analysis in nuclear fusion devices	Mr TIDIKAS, Andrius	

[85] Theoretical fusion plasma physics	Mr OLIVARES, Vallejos	
[39] Determination of the nature of radial transport in quasi-axisymmetric Stellarator config. for the confinement of fusion plasmas	Mr ALCUSÓN, Jorge Alberto	
[38] Implementation of a X-mode multichannel edge density profile reflectometer for the new ICRH antenna on ASDEX Upgrade	Mr DIOGO, Aguiam	
[64] Nitriding of titanium and steels in plasma of non-self-maintained gas discharge with hollow anode	Mr MISIRUK, Ivan	
[65] Thermo-mechanical analyses and design of components for fusion devices	Mr PATEL, Nisarg	
[66] The isotope effect in the FT-2 tokamak	Mr PEREVALOV, Artur	
[67] Study of tungsten and tungsten compound coatings for magnetic fusion research: damage, hydrogen retention and permeation	Mr PEZZOLI, Andrea	
[68] Advanced tools for three-dimensional modeling and control of thermonuclear fusion devices	Mr PIGATTO, Leonardo	
[69] Investigation of the parameters of a particle beam by numerical models and diagnostic calorimetry	Mr PIMAZZONI, Antonio	
[91] Experimental and numerical study of turbulence in fusion plasmas using gyrokinetics codes data in reflectometry synthetic diagno	Mr ZADVITSKIY, Georgiy	
[90] Disruptions in tokamaks	Mr YANOVSKIY, Vadim	
[93] Three-dimensional Physics of Revised Field Pinch and Stellarator	Mr ZHANG, Yangyang	
[92] Thermo-hydraulic models and analyses for design optimization of cooling circuits and components of SPIDER and MITICA experiments	Mr ZAUPA, Matteo	
[94] Plasma edge modeling with ICRF coupling	Mr ZHANG, Wei	
[48] Hydrogen and impurities retention studies on Tungsten-Lithium divertor materials by using Glow Discharge and Laser techniques	Mr DE CASTRO, Alfonso	
[49] Advanced transport modeling in tokamak plasmas	Mr EROFEEV, Ivan	
[46] Mm-wave scattering by electron density perturbation in fusion plasmas	Ms CHELLAÏ, Oulfa	
[86] Impurity transport in the W7X stellarator.	Mr VALSON, Pranay	
[44] The Improvement and Implementation of Ion-Impact Excitation in the Generalized Collisional Radiative Modelling of Fusion Plasmas	Mr BLUTEAU, Matthew	
[45] Thermo-mechanical analyses of the DEMO Water Cooled Lithium Lead (WCLL) breeding blanket concept.	Mr BONGIOVÌ, Gaetano	
[43] Thermo-mechanical characterization of novel coatings designed for harsh temperature and irradiation environments	Mr BESOZZI, Edoardo	
[40] Identification of trapped electron modes in frequency fluctuation spectra of fusion plasma	Mr ARNICHAND, Hugo	
[87] Hybrid MHD-Particle Simulations of ELMs in ITER Divertor Conditions	Mr VUGT, Daan van	
[77] BOUT++ Code	Mr SCHWÖRER, David	
[76] The Effect of Non-Axisymmetric Magnetic Fields in Tokamaks	Mr RYAN, David	
[75] Main subject is about fusion plasma diagnostics, in particular gamma and neutron spectroscopy for a thermonuclear fusion reactor	Mr RIGAMONTI, Davide	
[74] Ion Cyclotron Antennas for Fusion Devices	Mr RAGONA, Riccardo	
[73] Plasma wall interaction in the context of nuclear fusion	Ms QUIROS LARA, Catalina	
[72] Study of H, D and N atoms on/in fusion relevant wall materials	Mr PRIBULA, Marek	

[71] Dust resuspension phenomena experiments and modeling in case of loss of vacuum accidents inside tokamaks	Mr POGGI, Luigi Antonio	
[70] Simulations of electric probes in magnetized plasma	Mr PODOLNÍK, Aleš	
[79] MCNP Calculations of Neutron Distribution at the GIT-12 Device	Mr ŠÍLA, Ondřej	
[78] Electron Cyclotron Emission Measurements at the Stellarator TJ-K	Mr SICHARDT, Gabriel	
[41] Stability of fusion superconductors	Mr BAGNI, Tommaso	
[47] Magnetic Reconnection on fusion plasmas	Mr CORDARO, Luigi	

Tuesday, November 17, 2015

Poster presentations: Group 2 (12:45 PM - 2:30 PM)

-Conveners: [click to see the contributions](#) *

[id] title	presenter	board
[133] Characterization of the dielectric strength in vacuum of RF drivers for fusion Neutral Beam Injectors	Mr MAISTRELLO, Alberto	
[132] Mechanical properties of ODS Steels for fusion reactors	Mr DELGADO, Julio Macías	
[131] Development of innovative methods and tools for real-time control system in fusion devices	Mr MACEINA, Tautvydas	
[130] Modeling on non-linear ion cyclotron wave plasma interaction in magnetized plasma SOL	Mr LU, LingFeng	
[137] First NPA results on the COMPASS tokamak	Ms MITOŠÍNKOVÁ, Klára	
[136] Measurement of Heat Flux Widths in Tokamaks	Mr MCGANN, Alistair	
[135] Plasma response field to RMP on COMPASS - measurements and modelling	Mr MARKOVIČ, Tomáš	
[134] Plasma physics	Mrs MARINOVA, Plamena	
[139] Mechanical Properties of Fusion Relevant Materials	Ms NIKOLIC, Vladica	
[138] Development of GEM detector for fast and thermal neutron	Mr MURARO, Andrea	
[120] Breakup and dynamics of metal droplets in a tokamak plasma	Mr HOLGATE, Joshua	
[121] Modeling, analysis and design of superconductor cables for fusion	Mr HUANG, Jianfeng	
[122] Synergistic Effects of Plasma and Neutron Irradiation	Mr HUSSAIN, AsaD	
[123] Studies & experimental activities to qualify behavior of RF power circuits for Negative Ion Sources of NBI for ITER	Ms JAIN, Palak	
[124] Understanding plasma detachment through advanced diagnosis	Mr JESKO, Karol	
[125] Nuclear analysis and computational development for the design of fusion installations.	Mr KOLSEK, Aljaz	
[126] Irradiation induced structure and property changes in Tokamak functional materials	Ms KREVICA, Indra	
[127] Electromagnetic properties of edge turbulence in fusion plasma devices	Mr LIU, Bing	
[128] High power impulse magnetron sputtering (HiPIMS) with a view to creating niobium films	Mr ESTRIN, Francis Lockwood	
[129] Development of novel diagnostics for the MAST-Upgrade tokamak using FPGAs	Mr LOVELL, Jack	
[115] Development a dynamical model of the RE beam current and horizontal position during the RE plateau.	Mr GOSPODARCZYK, Mateusz	
[114] Non-local Neoclassical Transport features of bulk plasma and a-particles in reactor relevant burning plasmas	Ms GOGOLEVA, Alena	
[111] Evaluation of methods for power calibration in large tokamaks	Mr ČUFAR, Aljaž	
[110] Dielectric properties of Fusion-relevant materials	Mr MALAGON, Dario Andres Cruz	
[113] Characterization of the Internal Reconnection Event in spherical tokamak Globus-M	Ms DUDKOVSKAYA, Alexandra	

[112] Embrittlement of fusion materials initiated by neutron irradiation	Mr DUBINKO, Andrii	
[119] Dynamical relation between gradient and transport in Fusion Plasmas	Mr NICOLAU, Javier Hernandez	
[118] Neutronics tools and design analysis for the stellarator power reactor HELIAS	Mr HÄUSSLER, André	
[108] The influence of neutral particles on blob filaments in magnetically confined plasma	Mr CHRISTENSEN, Alexander Simon	
[109] Investigation and simulation of the brittle fracture behavior of tungsten and tungsten lanthanum oxide	Mr CONTE, Marco	
[102] Studies of Coherent Structures in Magnetically Confined Plasmas	Mr OLSEN, Jeppe Miki Busk	
[103] Modeling of heat transfer problems at the interface between different subsystems of a superconducting tokamak	Mr CARLI, Stefano	
[100] Electron heat transport in fusion plasmas	Mr BONANOMI, Nicola	
[101] High Field Superconductors for Fusion Applications	Mr BRANCH, Paul	
[106] Monitoring of Instrumentation for Critical Nuclear Fusion Plasma Control and Data Acquisition Systems	Mr CARVALHO, Paulo	
[107] Large scale numerical simulation of nonlinear kinetic physics in plasma experiments for magnetically confined fusion	Mr CHAPMAN, Benjamin	
[104] Thermal Hydraulic and Safety Analyses Fusion Reactors PHTS	Mr CARLONI, Dario	
[105] Production and characterization of strengthened copper alloys for cooling device in fusion reactors	Mr SEVILLANO, Gabriel Carro	
[99] Study on NIO1 and SPIDER Ion sources optics and spectroscopy	Mr BALTADOR, Carlo	
[98] Analysis of the thermo-mechanic behaviour of fusion breeding blankets	Mr ARENA, Pietro	
[95] Experimental and numerical study on advanced inorganic membranes for tritium processes in the Breeding Blanket	Mr ANTUNES, Rodrigo	
[97] Design of electric and magnetic components of a negative ion accelerator in view of application to ITER neutral beam injector	Mr APRILE, Daniele	
[117] Dynamics of turbulence filaments in the edge of tokamak plasmas	Mr GRACIAS, William	
[116] Plasma diagnostic using new FPGA technology	Mr GOTTARDO, Marco	
[151] Modelisation of the heat flux generated by electrons accelerated in front of lower-hybrid antennas in Tokamak	Mr VALADE, Laurent	
[150] Experimental studies of RF sheath rectification in magnetized plasmas using fast and slow ICRF antennas	Ms USOLTCEVA, Mariia	
[153] Scrape-off layer heat flux profile measurement in the medium and long wavelength infrared on COMPASS	Mr VONDRÁČEK, Petr	
[152] Potential of ECE Diagnostics for Runaway Electron Studies	Mr VLAINIĆ, Miloš	
[155] Coupling of Kinetic Periphery Plasma Code to SOLPS	Mr ZHAO, Menglong	
[154] Detachment and instability studies on the York Linear Plasma Device	Ms WILLETT, Hannah	
[157] The effect of ion flux and radiation damage on deuterium retention in tungsten-based materials Indico - Integrated Digital Conference Powered by Indico	Mr ZIBROV, Mikhail	
[156] Thermal Stratification Investigation for The TOKAMAK Cooling Water System	Mr ZHENG, Jie	
[146] Effects of ion irradiation on oxide dispersion strengthened steels for fusion	Mr SCEPANOVIC, Masa	

[147] Experimental Study of Plasma Rotation During Tokamak Disruptions	SHAH, Syed Ilyas Waseem	
[144] Experimental Devices within SUSEN Project in CV Rez	Mr PROKŮPEK, Jan	
[145] Power Exhaust data analysis and modeling of the EAST experiment in advanced divertor configuration	Mr RUBINO, Giulio	
[142] ITER relevant disruption and runaway electron studies	Ms CROATIAN, Zana Popovic	
[143] ITER Control Simulator	Mr PROKOPAS, Martynas	
[140] Characterization of the poloidal asymmetries of Tungsten and its impact to the radial impurity transport	Mr ODSTRČIL, Tomáš	
[141] Doppler Reflectometry	Mr ACOSTA, Javier Rodrigo Pinzon	
[148] Study of magnetized radio frequency sheaths using kinetic simulations	Ms SOMERS, Aoife	
[149] Homogeneity in breeder blanket modelling	Mr THOMAS, Fred	