

Varenna-Lausanne Workshop - Poster Session 1

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1	Agullo	J.H. Mun, M. Muraglia, L. Couedel, C. Arnas, <u>O. Agullo</u>	2D fluid modelling of sheaths and magnetron discharges
2	Albert	<u>C.G. Albert</u> , K. Rath, R. Buchholz, S.V. Kasilov and W. Kernbichler	Resonant transport of fusion alpha particles in quasisymmetric stellarators
3	Arnold	<u>A.M. Arnold</u> , P. Aleynikov, B.N. Breizman	A self-consistent kinetic model for the parallel expansion of a pellet plasmoid
4	Arter	<u>W. Arter</u> , for the ExCALIBUR Project NEPTUNE Team	Spectral/hp finite-element methods for plasma edge physics
5	Ball	<u>J. Ball</u> and S. Brunner	Local gyrokinetic simulations of tokamaks with non-uniform magnetic shear
6	Banerjee	<u>D. Banerjee</u> , S.D. Song, H.S. Xie, B. Liu, M.Y. Wang, W.J. Liu, B. Chen, L. Han, D. Luo, Y.Y. Song, X.M. Song, M.S. Liu, Yu V. Petrov, R.W. Harvey, Y.J. Shi and Y.K.M. Peng	Investigation of the effectiveness of 'multi-harmonic' electron cyclotron current drive in the non-inductive EXL-50 ST
7	Barberis	<u>T. Barberis</u> , F. Porcelli, and A. Yolbarsop	Fast particles resonance with axisymmetric modes in shaped plasmas
8	Bardsley	<u>O.P. Bardsley</u> , J.L. Baker	Optimisation of spherical tokamak divertor magnetic configurations using vacuum harmonic constraints
9	Bold	<u>D. Bold</u> , F. Reimold, H. Niemann, Yu Gao, M. Jakubowski, C. Killer, Victoria R. Winters and the W7-X team	Impact of transport models on local measurements in W7-X using synthetic diagnostics with EMC3-Eirene and comparison to experimental observations in the W7-X island scrape-off layer
10	Borgogno	<u>D. Borgogno</u> , L. Comisso, D. Grasso, M. Romé	Evolution of current and vorticity sheets in collisionless plasma turbulence
11	Bottino	<u>A. Bottino</u> , M.V. Falessi, T. Hayward-Schneider, A. Biancalani, S. Briguglio, R. Hatzky, Ph. Lauber, A. Mishchenko, E. Poli, B. Rettino, F. Vannini, X. Wang, F. Zonca	Time evolution and finite element representation of Phase Space Zonal Structures in ORB5
12	Brunetti	<u>D. Brunetti</u> , J.P. Graves, C.J. Ham, S. Saarelma	Free boundary pressure driven instabilities in a resistive plasma
13	Buchholz	<u>R. Buchholz</u> , S.V. Kasilov, W Kernbichler, A.A. Savchenko and C.G. Albert	Account of non-standard orbits in computations of neoclassical toroidal viscous torque in the resonant plateau regime of a tokamak
14	Cardinali	<u>A. Cardinali</u> , B. Baiocchi, C. Castaldo, R. Bilato, M. Brambilla, I. Casiraghi, S. Ceccuzzi, F. Napoli, G.L. Ravera, A.A. Tuccillo	Numerical Investigation of the Ion Cyclotron Resonance Heating (ICRH) Physics in DTT
15	Cazabonne	<u>J. Cazabonne</u> , P. Donnel, S. Coda, J. Decker, Y. Peysson and the TCV Team	Experimental and numerical investigations of local electron transport enhancement by Electron-Cyclotron wave-plasma interaction in tokamaks

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17	Davies	<u>R. Davies</u> , D. Dickinson, H. Wilson	Kinetic ballooning modes as a constraint on plasma triangularity in commercial spherical tokamaks
18	De Blank	<u>H.J. de Blank</u> , I. Krebs	Analytic model of $m = 1$ magnetic flux pumping
19	Dicorato	<u>M. Dicorato</u> , M. Muraglia, Y. Camenen, J. Garcia, and X. Garbet	Gyrokinetic Stability Analysis of JET Pedestal Top in Small-ELM Regime
20	Di Giannatale	<u>G. Di Giannatale</u> , P. Donnel, L. Villard, A. Bottino, S. Brunner, E. Lanti, B.F. McMillan, A. Mishchenko, M. Murugappan, T. Hayward-Schneider	Triangularity effects on global flux-driven gyrokinetic simulations
21	Donnel	<u>P. Donnel</u> , G. Dif-Pradalier, G. Di Giannatale, L. Villard, V. Grandgirard, L. Nguyen, K. Obrejan, E. Bourne, X. Garbet, Ph. Ghendrih, Y. Munsch, Y. Sarazin, R. Varennes	Gyrokinetic turbulence studies of the transition from open to closed field lines in tokamaks
22	Dubuit	<u>N. Dubuit</u> , O. Agullo, D. Villa, M. Muraglia, X. Garbet	Magnetic Structure of Turbulence-Driven Magnetic Islands
23	Frei	<u>B.J. Frei</u> , A.C.D. Hoffmann, P. Ricci	A Gyrokinetic moment-based method to model the plasma boundary of fusion devices at arbitrary collisionality
24	Geraldini	<u>A. Geraldini</u> , F.I. Parra, S. Brunner	Kinetic Chodura condition at the magnetised plasma sheath with turbulence
25	Ghendrih	<u>Ph. Ghendrih</u> , G. Dif-Pradalier, O. Panico, Y. Sarazin, H. Bufferand, G. Ciraolo, P. Donnel, N. Fedorczak, X. Garbet, V. Grandgirard, P. Hennequin, E. Serre, P. Tamain	Role of avalanche transport in competing drift wave and interchange turbulence
26	Grasso	<u>D. Grasso</u> , D. Borgogno, L. Singh, F. Subba	Stability of a weakly collisional plasma with runaway electrons
27	Graves	J. P. Graves	Unified linear and nonlinear treatment of tearing modes driven by infernal modes and bootstrap current
28	Hamed	<u>M.Hamed</u> , M.J. Pueschel, J. Citrin,, M. Muraglia, X. Garbet, Y.Camenen and EUROfusion team	Towards a reduced transport model for microtearing turbulence in H-mode plasmas
29	Hardman	M. R. Hardman, M. Barnes, J. Omotani, F. I. Parra, S. L. Newton	A kinetic model of ions and neutrals with wall boundary conditions in edge plasmas
30	Helander	<u>P. Helander</u> , G.G. Plunk, L. Podavini and A. Zocco	Upper bounds on gyrokinetic instabilities
31	Hoffmann	<u>A.C.D. Hoffmann</u> , B.J. Frei, P. Ricci	Collisional gyrokinetic nonlinear simulations of turbulent transport based on the projection of the distribution function on a Hermite-Laguerre basis

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34	Lainer	<u>P. Lainer</u> , C.G. Albert, S.V. Kasilov and W. Kernbichler	Linear ideal MHD modeling of plasma response to 3D magnetic perturbations in tokamaks
35	Lee (H.-C.)	<u>H.-C. Lee</u> , D.H. Choi, T.W. Kim, and J.H. Kim	RF heating mode transition, hysteresis, and applications of inductive discharges
36	Locker	<u>F.F. Locker</u> , A. Kendl, M. Held, E. Matti vi, T. Stocker Waldhuber	2D full f gyrofluid magnetic reconnection
37	Lu	<u>Z. Lu</u> , <u>Guo Meng</u> , R. Hatzky, Ph. Lauber, M. Hoelzl	Implementation of gyrokinetic electromagnetic models using cubic spline and C1 finite elements
38	Maloney	<u>S.A. Maloney</u> and B.F. McMillan	A Partially Meshfree Galerkin Scheme for Representing Highly Anisotropic Fields
39	Mandell	<u>N. R. Mandell</u> , W. Dorland, I. Abel, N. Barbour, B. Buck, R. Gaur, P. Kim and T. Qian	GX: a GPU-native gyrokinetic turbulence code for tokamaks and stellarators
40	Mariani	<u>A. Mariani</u> , S. Brunner, G. Merlo and O. Sauter	Global 'zero particle Flux'-driven gyrokinetic analysis of the density profile for a TCV plasma, compared with gradient-driven and quasi-linear results
41	Mathews	A. Mathews	Deep neural networks for physics-informed modelling of edge turbulence based upon gas puff imaging in fusion plasmas
42	Maurino	<u>J. Maurino</u> , F.I. Parra,, M. Barnes, I. Calvo, M. Landreman, S.L. Newton	Effect of turbulence on current drive in up-down asymmetric tokamaks
43	Mitterauer	<u>V. Mitterauer</u> , M. Hoelzl, M. Willensdorfer, M. Dunne, JOREK Team, ASDEX Upgrade Team	Non-linear simulations of the plasma response to resonant magnetic perturbations in ASDEX Upgrade plasmas
44	Muraca	<u>Marco Muraca</u> , Emiliano Fable, Clemente Angioni, Pierre David, Hartmut Zohm, Teobaldo Luda & the ASDEX Upgrade Team	Reduced Transport Models for a Tokamak Flight Simulator
45	Muraglia	<u>M. Muraglia</u> , N Dubuit, O Agullo, A Poye, M. Dicorato, D. Villa and X Garbet	Multi-scales physics of magnetic reconnection : From basic mechanisms to instability
46	Murugappan	<u>M. Murugappan</u> , L. Villard, S. Brunner	Gyrokinetic simulations of turbulence and zonal flows driven by steep profile gradients using a delta-f approach with an evolving background Maxwellian
47	Nicolas	<u>T. Nicolas</u> , H. Lutjens, O. Sauter, X. Garbet	Shafranov shift correction to the Furth-Yoshikawa scaling of tokamak adiabatic compression

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49	Patel	B.S. Patel, D. Dickinson, M.R. Hardman, D. Kennedy, C.M. Roach	Saturation mechanisms of core micro-tearing modes in spherical tokamaks
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51	Porcelli	F. Porcelli, A. Yolbarsop, T. Barberis and R. Fitzpatrick	Vertical displacements resonant at magnetic divertor X-points
52	Raghunathan	M. Raghunathan, Y. Marandet, H. Bufferand, G. Ciraolo	Generalized Multi-Temperature Zhdanov Closure for Scrape-Off Layer/Edge Applications
53	Slaby	C. Slaby, M. Machielsen, S. Lazerson and J.P. Graves	Simulation of radio-frequency heating and fast-ion generation in Wendelstein 7-X
54	Tardini	G. Tardini, E. Fable, C. Angioni, D. Fajardo, P.T. Lang, T. Luda and the ASDEX Upgrade Team	A framework for integrated transport modelling and validation
55	Vannini	F. Vannini, A. Biancalani, A. Bottino, T. Hayward-Schneider, P. Lauber, A. Mishchenko, E. Poli, B. Rettino, G. Vlad, X. Wang and the ASDEX Upgrade team	Gyrokinetic modelling of the Alfvén mode and EGAM activity in ASDEX Upgrade
56	Varenes	R. Varenes, X. Garbet, L. Vermare, Y. Sarazin, G. Dif-Pradalier, V. Grandgirard, P. Ghendrih, P. Donnel, M. Peret, K. Obrejan, E. Bourne	Intrinsic rotation drive in tokamaks: the competition between turbulence and magnetic braking.
57	Villa	D. Villa, N. Dubuit, O. Agullo, A. Poyé, X. Garbet and A. Smolyakov	Localized spontaneous compressional heating in magnetic islands
58	Vivenzi	N. Vivenzi, D. Bonfiglio, S. Cappello, G. Spizzo and M. Veranda	Kinematic viscosity estimates in reversed-field pinch fusion plasmas
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60	Wiesenberger	M. Wiesenberger, R. Gerru, M. Held	Long-wavelength closures for collisional and neutral interaction terms in gyro-fluid models
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63	Zlochchastiev	K.G. Zlochchastiev	Statistical mechanics with non-Hermitian Hamiltonians and its applications for zonal flow of plasma interacting with drift waves