

<b>MONDAY</b>	20 June 2022
8:00-8:45	Registration
8:45-9:00	Opening ceremony
9:00-10:45	Session 1 Chair: Thomas Sunn Pedersen
9:00-9:35	<b>Felix Reimold</b> (IPP Greifswald, Germany) Status of impurity transport in W7-X with special focus on the plasma boundary and the reactor perspective
9:35-10:10	<b>Yuhe Feng</b> (IPP Greifswald, Germany) Detachment Physics of W7-X Island Divertor
10:10-10:45	<b>Samuel Lazerson</b> (IPP Greifswald, Germany) Stellarator Fast Ion Physics in Wendelstein 7-X
10:45-11:10	coffee break
11:10-12:40	Session 2 Chair: Kazunobu Nagasaki
11:10-11:45	<b>Dmitry Moseev</b> (IPP Greifswald, Germany) Accelerated impurity exhaust by means of ICRF heating at LHD
11:45-12:20	<b>Kenji Tanaka</b> (NIFS, Japan) Ion turbulence studies in LHD and W7-X
12:20-12:40	<b>Jacobo Varela</b> (University Carlos III of Madrid, Spain) Effect of the neutral beam current drive in the stability of LHD plasma: experimental results and numerical analysis
12:40-15:00	lunch break
15:00-16:15	Session 3 Chair: Santhosh Kumar
15:00-15:35	<b>Haifeng Liu</b> (Southwest Jiaotong University, China) Current Progress in Engineering/Physical Studies and Fabrication of the Chinese First Quasi-axisymmetric Stellarator (CFQS)
15:35-15:55	<b>Benedikt Geiger</b> (University of Wisconsin – Madison, USA) Prospects of a Compact Large-Aspect Ratio Stellarator for Fusion Energy Production
15:55-16:15	<b>Michael Zarnstorff</b> (PPPL, USA) Simple optimized stellarator construction using permanent magnets
16:15-17:00	coffee break
17:00-18:10	Session 4 Chair: Jacobo Varela
17:00-17:35	<b>Álvaro Cappa</b> (CIEMAT, Spain) Linear stability analysis of TJ-II stellarator NBI driven Alfvén eigenmodes in ECRH and ECCD experiments
17:35-18:10	<b>Panith Adulsiriswad</b> (NIFS, Japan) Hybrid simulation of linear and nonlinear dynamics of energetic particle driven magnetohydrodynamic instabilities in Heliotron J
18:30-20:30	Welcome reception – Conference venue

<b>TUESDAY</b>	21 June 2022
8:00-9:00	Registration
9:00-10:45	Session 5 Chair: Michael Zarnstorff
9:00-9:35	<b>Shinji Kobayashi</b> (Kyoto University, Japan) Effect of 3D magnetic field on confinement and transport in Heliotron J
9:35-10:10	<b>Andreas Dinklage</b> (IPP Greifswald, Germany) The effect of magnetic islands on the bootstrap current in Wendelstein 7-X
10:10-10:45	<b>Kenneth Hammond</b> (PPPL, USA) Design and optimization of a quasi-axisymmetric stellarator with permanent magnets
10:45-11:10	coffee break
11:10-12:55	Session 6 Chair: Elizabeth Paul
11:10-11:45	<b>Rogério Jorge</b> (IST, Portugal) Novel Designs of Quasi-Isodynamic Stellarators
11:45-12:20	<b>Matt Landreman</b> (University of Maryland, USA) New stellarator configurations with precise quasisymmetry
12:20-12:55	<b>Edilberto Sánchez (CIEMAT, Spain)</b> A quasi-isodynamic configuration with good confinement of fast ions for low beta
12:55-13:00	<b>Conference photo</b>
13:00-14:30	lunch break
14:30-16:05	Session 7 Chair: Arturo Alonso
14:30-15:05	<b>Alejandro Banon Navarro</b> (IPP Greifswald, Germany) GENE-3D/KNOSOS-Tango: A New High-Fidelity Model for Predicting Core Plasmas Profiles in Stellarators
15:05-15:25	<b>Daniel Dudt</b> (Princeton University, USA) DESC quasi-symmetry optimization
15:25-15:45	<b>Shuai Xu</b> (FZJ Jülich, Germany) Modeling of plasma beta effects on the magnetic island structure and edge plasma transports in W7-X
15:45-16:05	<b>Colin Swee</b> (University of Wisconsin - Madison, USA) Application of Markov Chain Monte Carlo Inference for Impurity Transport Experiments in W7-X and HSX
16:05-16:30	coffee break
16:30-18:00	poster session 1

<b>WEDNESDAY</b>	22 June 2022
8:45-10:35	Session 8 Chair: Josefine Proll
8:45-9:20	<b>Robert Lunsford</b> (PPPL, USA) Impurity Powder Driven Plasma Modifications on the Large Helical Device
9:20-9:55	<b>Thomas Wegner</b> (IPP Greifswald, Germany) Impurity transport in the core region of W7-X during its most recent campaigns
9:55-10:15	<b>Per Helander</b> (IPP Greifswald, Germany) Upper bounds on gyrokinetic instabilities
10:15-10:35	<b>Daihong Zhang</b> (IPP Greifswald, Germany) 2D distribution and up-down asymmetry in low-Z impurity radiation in Wendelstein 7-X
10:35-11:00	coffee break
11:00-12:30	Session 9 Chair: Kenneth Hammond
11:00-11:35	<b>Valeria Perseo</b> (IPP Greifswald, Germany) 2D measurements of impurity flows and line radiation in the W7-X scrape-off layer for attached and detached plasmas
11:35-12:10	<b>Naoki Tamura</b> (NIFS, Japan) Initial Results of He Beam Experiments in LHD
12:10-12:30	<b>Arun Pandey</b> (IPP Greifswald, Germany) Stable, small plasmas in Wendelstein 7-X
12:30-14:00	lunch break
14:00-15:35	Session 10 Chair: Amitava Bhattacharjee
14:00-14:35	<b>Adelle Wright</b> (PPPL, USA) Exploring stellarator $\beta$ -limits with nonlinear MHD modelling
14:35-14:55	<b>Jorrit Lion</b> (IPP Greifswald, Germany) Systems code studies for stellarator optimization
14:55-15:15	<b>Ksenia Aleynikova</b> , (IPP Greifswald, Germany) KBMs in W7-X
Free time/time for excursion	

<b>THURSDAY</b>	23 June 2022
8:45-10:35	Session 11 Chair: Monika Kubkowska
8:45-9:20	<b>Hiroyuki Yamaguchi (NIFS, Japan)</b> Development of coil-shaping-based optimization code and its application to helical coil stellarator
9:20-9:55	<b>José Luis Velasco (CIEMAT, Spain)</b> Theoretical prediction of improved energetic ion confinement in low-beta Wendelstein 7-X plasmas with reduced turbulence
9:55-10:15	<b>Hanne Thienpondt (CIEMAT, Spain)</b> Turbulent transport versus density gradient: an inter-machine study with the gyrokinetic code stella
10:15-10:35	<b>Oleksiy Mishchenko (IPP Greifswald, Germany)</b> Global gyrokinetic simulations of electromagnetic turbulence in stellarator plasmas
10:35-11:00	coffee break
11:00-12:30	Session 12 Chair: Andreas Dinklage
11:00-11:35	<b>Daniel Andruczyk (University of Illinois Urbana-Champaign, USA)</b> Increased Plasma Performance with Liquid Lithium in Quasi Steady State HIDRA Plasmas
11:35-12:10	<b>Nerea Panadero (CIEMAT, Spain)</b> Is core fuelling by pellets in helical devices as straightforward as envisaged? An overview of simulation results with the HPI2 code in TJ-II and other helical devices
12:10-12:30	<b>Thilo Romba (IPP Greifswald, Germany)</b> Local turbulent impurity transport suppression in NBI heated W7-X plasmas measured by CXRS
12:30-14:00	lunch break
14:00-15:15	Session 13 Chair: Samuel Lazerson
14:00-14:35	<b>Keiji Fujita (NIFS, Japan)</b> Study on impurity hole plasmas by global neoclassical simulation
14:35-14:55	<b>Kazunobu Nagasaki (Kyoto University, Japan)</b> Control of Energetic-particle-driven MHD Instabilities by External Actuators in Heliotron J and LHD
14:55-15:15	<b>Vladimir Moiseenko (Uppsala University, Sweden)</b> Stellarator-mirror fusion-fission hybrid – a fast route to clean and safe nuclear energy
15:15-15:45	coffee break
15:45-17:15	poster session 2
18:30 - 22:00	Conference dinner – Warsaw Marriott hotel

<b>FRIDAY</b>	24 June 2022
9:00-10:10	Session 14 Chair: Sławomir Jabłoński
9:00-9:35	<b>Antoine Bailod</b> (EPFL, Switzerland) Stellarator optimization for nested magnetic surfaces at finite beta and toroidal current
9:35-10:10	<b>Michael Gerard</b> (University of Wisconsin - Madison, USA) Optimizing the HSX Stellarator for Trapped-Electron-Mode Turbulence
10:10-10:50	coffee break
10:50-12:00	Session 15 Chair: Naoki Tamura
10:50-11:25	<b>Daniel Carralero</b> (CIEMAT, Spain) Recent turbulence investigations in the TJ-II and W7-X stellarators: experimental characterisation and 3D code-based interpretation
11:25-12:00	<b>Marco Zanini</b> (IPP Greifswald, Germany) Sawtooth-like crashes at W7-X
12:00-12:20	Closing ceremony
14:00-17:00	22nd CWGM meeting