

# 22nd International Spherical Torus Workshop

## Posters

### Monday

No	Name	Title
1	Kaye, Stanley	Transport and Microinstability Properties of ST40 Plasmas
2	Romanelli, Michelle	The ST40 confinement database: extending the ST scaling to higher magnetic field
3	Gemmell, Michael	Optimisation of physics-based models using Bayesian methodologies on the high field spherical tokamak ST40
4	Raman, Roger	Desing considerations for a Transient CHI system for ST40
5	Dudkovskaia, Alexandra	On multi-scale, finite beta plasma turbulence theory and simulations in strong gradient regions
6	Graves, Jonathan	Theory of non-linear non-resonant ideal MHD instabilities and application to the seeding of NTMs
7	Yang, Yuanming	Engineering Design and status of the ENN Spherical Torus EXL-50U
8	Xie, Huasheng	Progress of the ENN EHL-2 Spherical Torus Physics Design
9	Verma, Aditya Kumar	Engineering design of a prototype center stack toroidal field coil for spherical tokamak
10	Micozzi, Paolo (presented by Franco Alladio)	Status of the PROTO-SPHERA experiment: fullcurrent/full duration plasma tori production and sustainment and insights for Phase-2
11	Casson, Francis	A non-inductive ramp-up scenario for STEP
12	Moulton, David	The importance of molecular charge exchange in SOLPS-ITER simulations of detached MAST-U plasmas
13	Parr, Eddie	Fission-chamber array measurements at MAST-U
14	Gage, Kenneth	Radial Propagation of Turbulence Signals in MAST-U
15	Luong, Tri	Two-Channel Tunable Frequency Doppler and Cross-Polarization Scattering Systems for MAST-U (V-band, 50 – 75 GHz)
16	Lafferty, Mark	Vertical Stability of Transient Plasma Scenarios for STEP
17	Berkery, Jack	A Review of Comparative Studies between the NSTX/-U and MAST/-U Spherical Tokamaks

### Tuesday

1	Berkery, Jack	Pedestal Width-Height Scaling and Dependence on Plasma Shaping Parameters in Spherical Tokamaks MAST-U and NSTX
2	Kleiner, Andreas	Development of coupled extended-MHD and gyrokinetic simulation capabilities for edge stability in spherical tokamaks
3	Parisi, Jason	Effect of plasma shaping on pedestal width-height scaling and prospects for ELM-free operation at low aspect ratio
4	Bertelli, Nicola (presented by Masa Ono)	The effects of the edge plasma density fluctuations on high harmonic fast wave propagation and absorption
5	Thomas, Kitt	Neoclassical Tearing Mode modelling in MAST-U
6	Cruz-Zabala, Diego	Negative triangularity and spherical tokamaks as a promising combination for compact fusion reactors
7	Suarez-Barcena, Jesus Salas	Preparation of unambiguous mm-wave interferometer for the SMART tokamak
8	David, Liam	Stability and End-Biasing in the PFRC-2
9	Song, Zichong	Progress of magnetic plasma control in SUNIST-2
10	Xin, Tao	Investigation and optimization of washer stack structure of a washer plasma gun
11	Chang, Tingzhi	Wall conditioning systems and initial results in SUNIST-2 Spherical Tokamak
12	Takeda, Shinjiro	Detection of electron acceleration at X-point during magnetic reconnection of two merging tokamak plasmas
13	Tsujii, Naoto	Lower hybrid start-up experiments with the off-midplane launcher on the TST-2 spherical tokamak
14	Dlougach, Eugenia	Neutral beam integrated optimization for steady-state operation of fusion neutron source design based on spherical tokamak
15	Kim, Taekyoung	The Result of Ohmic-Helicity Injection Operation with Distant Arc Plasma Guns
16	Bohlin, Hannes	Overview of the soft X-ray Single Point Diode diagnostic on the compact high field spherical tokamak ST40
17	Fontana, Matteo	Advances in microwave diagnostics on ST40