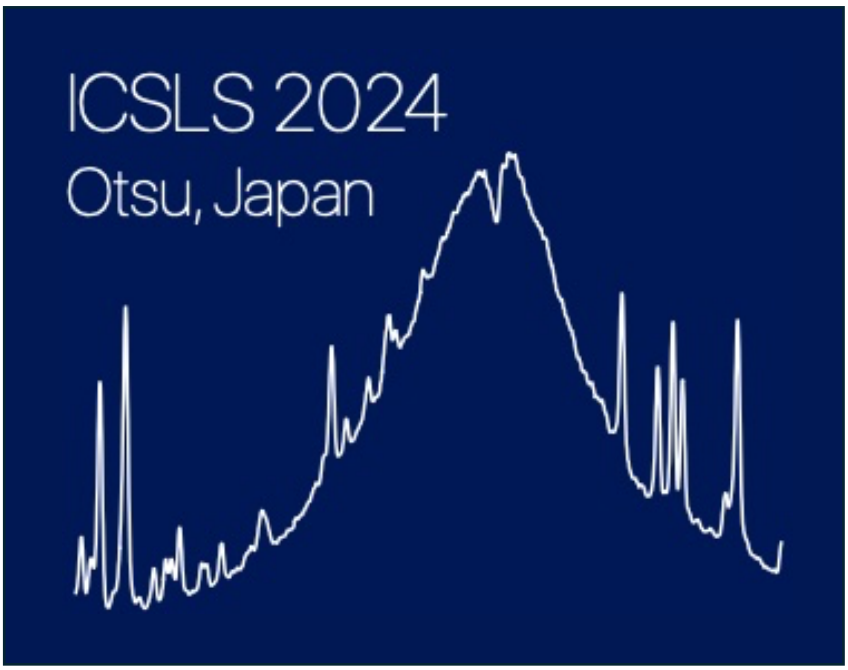

Program

26th International Conference on Spectral Line Shapes

Sunday, June 2

17:00 – 19:00	**Welcome reception and registration at Budokan, Otsu**		

Monday, June 3

9:40 – 10:00	**Opening**		
	Laboratory Plasma Spectroscopy – Session Chair: Shinichiro Kado		
10:00 – 10:40	I-1	**Tetsutarou Oishi** *Tohoku University*	Recent progress in observation of emission spectra of tungsten ions in low to intermediate charge state range in a fusion plasma experiment
10:40 – 11:10	**Coffee break**		
11:10 – 11:50	I-2	**Ling Zhang** *Institute of Plasma Physics, Chinese Academy of Sciences*	Observation and line analysis of tungsten, molybdenum and copper spectra at 20-150 Å emitted intrinsically from EAST plasma
11:50 – 12:10	C-1	**Akira Sasaki** *QST*	Modeling of EUV spectrum from laser-produced Sn plasmas
12:10 – 12:30	C-2	**Chihiro Suzuki** *National Institute for Fusion Science*	Temperature dependent shape of quasi-continuum spectra from highly charged heavy ions observed in the Large Helical Device
12:30 – 14:00	**Lunch**		
	Atomic Line Shape Theory – Session Chair: Roland Stamm		
14:00 – 14:40	I-3	**Mohammed Koubiti** *Aix-Marseille Université-CNRS*	Application of deep-learning models to the Balmer-α line of hydrogen isotopes in tokamaks
14:40 – 15:00	C-3	**Joël Rosato** *Aix-Marseille University*	Line shape modeling for the characterization of stellar atmospheres, magnetic fusion and magneto-inertial fusion experiments: an overview of current challenges
15:00 – 15:20	C-4	**Ibtissem Hannachi** *University of Batna 1*	Dynamic Stark effect on line shapes in laboratory and fusion plasmas
15:20 – 15:50	**Coffee break**		
15:50 – 17:30	**Poster session I**		

Tuesday, June 4

	High Precision Measurements and Theory - session chair: Roman Ciuryło		
9:20 – 10:00	I-4	**Yoshiro Takahashi** *Kyoto University*	High-resolution laser spectroscopy of ultracold atoms in an optical lattice for quantum simulation and quantum sensor for new physics
10:00 – 10:40	I-5	**Antonio Castrillo** *Università della Campania Luigi Vanvitelli*	Interrogation of light molecules by means of comb-assisted cavity-enhanced methods: precision measurements and fundamental tests.
10:40 – 11:10	**Coffee break**		
11:10 – 11:50	I-6	**Daniel Lisak** *Nicolaus Copernicus University*	Dispersion and absorption cavity ring-down spectroscopy
11:50 – 12:10	C-5	**Piotr Maslowski** *Nicolaus Copernicus University in Torun*	Comb-based Fourier-transform spectrometer for measurements in the 2.5-5 μm wavelength range
12:10 – 12:30	C-6	**Nikodem Stolarczyk** *Nicolaus Copernicus University in Torun*	A complete ab initio spectroscopic dataset of the hydrogen molecule for astrophysical studies
12:30 – 14:00	**Lunch**		
	High Precision Measurements and Theory - session chair: Takeshi Higashiguchi		
14:00 – 14:40	I-7	**Ruggero Caravita** *INFN*	Laser cooling of positronium
14:40 – 15:00	C-7	**Michał Żółtowski** *Nicolaus Copernicus University in Toruń*	Ab initio calculations of the line-shape parameters for atmospheric molecules. Problems, challenges, perspective for quantum scattering studies.
15:00 – 15:20	C-8	**Hisashi Abe** *National Metrology Institute of Japan*	SI-traceable line intensity of H_2O near 1.393 μm
15:20 – 15:50	**Coffee break**		
15:50 – 17:30	**Poster session II**		

Wednesday, June 5

	Frequency Combs (Menlo Systems) - session chair: Piotr Maslowski		
9:20 – 10:00	I-8	**Akira Ozawa** *Max-Planck-Institute of Quantum Optics*	Extreme ultraviolet optical frequency combs and applications
10:00 – 10:40	I-9	**Grzegorz Kowzan** *Nicolaus Copernicus University in Torun*	Mid-infrared Fourier-transform spectroscopy with optical frequency combs
10:40 – 11:10	**Coffee break**		
11:10 – 11:50	I-10	**Thomas Quenzel** *Menlo Systems GmbH*	Broadband high-repetition rate laser frequency combs for precision astronomical spectroscopy
11:50 – 12:50	**Lunch**		
13:00 – 18:00	**Excursion (Ishiyama Temple & Koka Ninja Village)**		
18:30 – 20:30	**Banquet (Shin-Oumi Bekkan)**		

Thursday, June 6

	Astrophysical and Laboratory Plasma Spectroscopy - session chair: Taiichi Shikama		
9:20 – 10:00	I-11	**Ryohko Ishikawa** *National Astronomical Observatory of Japan*	Exploring new frontiers in solar ultraviolet spectropolarimetry: the CLASP sounding rocket experiments
10:00 – 10:40	I-12	**Kotaro Yamasaki** *Hiroshima University*	Impact of the radiative trapping on the helium line intensity ratio method
10:40 – 11:10	**Coffee break**		
11:10 – 11:50	I-13	**Siriyaporn Sangaroon** *Mahasarakham University*	Deuterium-deuterium neutron spectroscopy in deuterium plasmas heated by neutral beams on the Large Helical Device
11:50 – 12:10	C-9	**Malay Bikas Chowdhuri** *Institute for Plasma Research*	Line profile analysis of self-absorbed lithium spectral emission during Li_2TiO_3 injection in ADITYA-U tokamak
12:10 – 12:30	C-10	**Yunxin Cheng** *Institute Of Plasma Physics Chinese Academy Of Sciences*	The observation of tungsten unresolved transition arrays spectra at high electron temperature plasma in Experimental Advanced Superconducting Tokamak
12:30 – 14:00	**Lunch**		
	Atomic Line Shapes - session chair: Shinichi Namba		
14:00 – 14:40	I-14	**Eugene Oks** *Auburn University*	Review of recent analytical advances in the spectroscopy of hydrogenic lines in plasmas
14:40 – 15:20	I-15	**Evgeny Stambulchik** *Weizmann Institute of Science*	Dense-plasma effects on hydrogen-like transitions
15:20 – 15:50	**Coffee break**		
15:50 – 16:10	C-11	**Shusuke Nishiyama** *Japan Healthcare University*	Evaluation of population density distribution of atomic hydrogen n=2 states by laser absorption spectroscopy and saturation spectroscopy
16:10 – 16:30	C-12	**Tomoko Kawate** *National Institute for Fusion Science*	High-resolution magnetic-field diagnostics via Doppler-free saturation spectroscopy and passive polarization spectroscopy in a helium plasma
16:30 – 16:50	C-13	**Joseph John Simons** *The Graduate University for Advanced Studies, SOKENDAI*	Simulation of Doppler-free spectra using the collisional radiative model

Friday, June 7

	Molecular Line Shapes - session chair: Motoshi Goto		
9:20 – 10:00	I-16	**Sergey Yurchenko** *University College London*	The 2024 release of the ExoMol database: molecular data for exoplanet and other hot atmospheres
10:00 – 10:40	I-17	**Jeanna Buldyreva** *University of Franche-Comte*	Decoding light from exoplanets with collisional line-shape parameters
10:40 – 11:10	**Coffee break**		
11:10 – 11:30	C-14	**Magnus Gustafsson** *Luleå University of Technology*	Broadening of rotational CO lines by He collisions at low temperatures
11:30 – 11:50	C-15	**Hui Liang** *University of Science and Technology of China*	Cavity-enhanced spectroscopy of H_2 with sub-promille precision
11:50 – 12:10	C-16	**Yan Tan** *University of Science and Technology of China*	Line intensity measurement of CO (3-0) overtone transitions with 0.1% precision
12:10 – 12:30	C-17	**Yitong Liu** *Xi'an Jiaotong University*	Ion-induced atomic alignment and magnetic sub-state ionization in L_3 -subshell
12:30 – 12:50	**Closing**		

List of Poster Presentations

P-1	**Tsunehiro Morita** *Kyoto University*	Application of full Stokes spectropolarimetry to HeI 2^3S-2^3P emission line spectrum in Heliotron J
P-2	**Nikodem Stolarczyk** *Nicolaus Copernicus University in Torun*	Analytical derivation of asymptotic properties of speed-dependent collisional line shapes
P-3	**Nikodem Stolarczyk** *Nicolaus Copernicus University in Torun*	Investigating molecular collision effects on line shapes: A study of the H_2 -Ar system
P-4	**Nikodem Stolarczyk** *Nicolaus Copernicus University in Torun*	Cavity-enhanced spectroscopy of H_2 in a deep cryogenic regime
P-5	**Nikodem Stolarczyk** *Nicolaus Copernicus University in Torun*	Ab Initio Investigation of Collisional Dynamics in N_2-perturbed O_2 Electronic Transition
P-6	**Roland Jean Stamm** *Aix Marseille University*	Line shapes in fusion plasmas affected by periodic electric fields
P-7	**Piotr Maslowski** *Nicolaus Copernicus University in Torun*	Absolute frequency measurement of fundamental band of CO with frequency comb spectroscopy
P-8	**Motoshi Goto** *National Institute for Fusion Science*	Influence of Stark broadening on ion temperature measurement for ITER divertor diagnosis
P-9	**Hayato Ohashi** *University of Toyama*	Shorter EUV emission from laser-produced tungsten plasmas
P-10	**Tatsuya Sakamoto** *Kyoto University graduate school*	Observation of Zeeman effect on near-infrared ArI emission line spectra in a glow discharge plasma under magnetic field relevant to fusion plasmas
P-11	**Roman Ciuryło** *Nicolaus Copernicus University*	Towards fundamental studies with Hg atoms and Hg_2 molecules
P-12	**Roman Ciuryło** *Nicolaus Copernicus University*	Line-shape study of air-perturbed O_2 B band: pressure- and temperature-dependency of line parameters
P-13	**Ivan Traparic** *Institute of Physics Belgrade*	Tungsten unresolved transition array spectra modeling with variational autoencoder
P-14	**Takeshi Higashiguchi** *Utsunomiya University*	Water-window soft x-ray spectra from dual laser-produced Bi plasmas
P-15	**Tsukasa Sugiura** *Utsunomiya University*	Improvement of EUV spectra by optical thickness control
P-16	**Tatsuya Soramoto** *Utsunomiya University*	EUV emission from a regenerative liquid target laser-produced plasma
P-17	**Akihiro Iwata** *Kyoto University*	Measurement of the electron density and temperature in the ablation cloud of the small-size hydrogen pellet using the Paschen series spectra in Heliotron J
P-18	**Ryota Nishimura** *Tohoku University*	Collisional-radiative modeling of W^{17+}-W^{25+} spectra around 200 Å and application to fusion plasma diagnostics
P-19	**Ko Hosokawa** *SOKENDAI*	Pressure-broadening measurement of CH_4 in H_2 and He Bath at 1.6 μm for investigating the gaseous exoplanet atmospheres
P-20	**Yasuko Kawamoto** *NIFS*	Fast ion diagnostics using FIDA measurements in Large Helical Device
P-21	**Miroslav Kuzmanovic** *University of Belgrade*	Hydrogen isotopes Balmer alpha line resolving for tritium retention studies