

Oral presentation list

Plenary

A1: [Introduction and Summary of Results from WHAM's first experimental campaign](#)

Sep. 22 (Mon.) 10:10

Prof. Cary Forest (University of Wisconsin - Madison)

A2: [Overview of GAMMA 10/PDX and Pilot GAMMA PDX-SC](#)

Sep. 22 (Mon.) 10:45

Prof. Mizuki Sakamoto (Plasma Research Center, University of Tsukuba)

A3: [The Generation of Field-Reversed Configurations via Neutral Beam Injection](#)

Sep. 22 (Mon.) 15:40

Dr. Thomas Roche (TAE Technologies, Inc.)

A4: [GDMT project - a way to fusion power plant](#)

Sep. 23 (Tue.) 9:00

Dr. Vadim Vadimovich Prikhodko (Budker Institute of Nuclear Physics SB RAS)

A5: [Progress in the Development of a Small Magnetic Mirror Machine at KAIST, KAIMIR](#)

Sep. 23 (Tue.) 10:55

Prof. Choongki Sung (Korea Advanced Institute of Science and Technology)

Keynote

K1: [Status of GDT experiment](#)

Sep. 22 (Mon.) 11:20

Dr. Peter Bagryansky (Budker Institute of Nuclear Physics)

K2: [An Overview of Realta Fusion's Development Path](#)

Sep. 22 (Mon.) 13:30

Dr. Derek Sutherland (Realta Fusion)

K3: [Overview and progress for the Novatron concept](#)

Sep. 22 (Mon.) 14:00

Mr. Rickard Holmberg (Novatron Fusion Group)

K4: [Robust Self-Organization of FRCs and Its Role in Refueling and Formation](#)

Sep. 22 (Mon.) 16:15

Prof. Tomohiko Asai (Nihon University)

K5: [Commercial fusion power plants: overview and open trap plasma confinement opportunities](#)

Sep. 23 (Tue.) 9:35

Dr. Mikhail Moyzykh (SuperOx LLC, invite)

K6: [Enhanced confinement of high- \$\beta\$ plasma in open systems](#)

Sep. 23 (Tue.) 14:00

Dr. Peter Yushmanov (TAE Technologies, Inc.)

K7: [Research for future fusion devices using plasma-material interaction facilities](#)

Sep. 24 (Wed.) 9:00

Prof. Bernhard Unterberg (Juelich Research Center)

K8: [Development of detached plasma research using linear device - complementary research of experiments and simulations](#)

Sep. 24 (Wed.) 13:30

Dr. Hirohiko Tanaka (Nagoya University)

K9: [Additional heating for higher density plasma experiments in GAMMA 10/PDX](#)

Sep. 25 (Thu.) 9:15

Dr. Masayuki Yoshikawa (Plasma Research Center, University of Tsukuba)

Invited

I1: [Helically symmetric multiple-mirror traps: results and further investigations](#)

Sep. 22 (Mon.) 14:30

Dr. Anton Vyacheslavovich Sudnikov (Budker Institute of Nuclear Physics)

I2: [Building a new FRC device using RF antennas and microwave](#)

Sep. 22 (Mon.) 16:45

Dr. Kiyong Lee (Korea Institute of Fusion Energy)

I3: [Open Trap Fusion as a Commercially Viable Option for Energy Security](#)

Sep. 23 (Tue.) 10:05

Dr. Andrey Vavilov (Faraday Factory Japan)

I4: [Engineering, diagnostics and experimental status in the Novatron N1](#)

Sep. 23 (Tue.) 11:30

Dr. Robin Dahlbäck (Novatron Fusion Group)

I5: [Plasma Breakdown and Hot Electron Production on WHAM](#)

Sep. 23 (Tue.) 15:55

Mr. Jonathan David Pizzo (University of Wisconsin - Madison)

I6: [Measurement of sloshing ions in WHAM](#)

Sep. 23 (Tue.) 16:20

Mr. Kunal Sanwalka (University of Wisconsin - Madison)

I7: [Recent activities in plasma-surface interactions at the Budker Institute](#)

Sep. 24 (Wed.) 9:30

Mr. Alexandr Alexandrovich Kasatov (Budker Institute of Nuclear Physics (BINP SB RAS))

I8: [Atomic and Molecular Processes in the Open Magnetic Field of Tandem Mirror Device GAMMA 10/PDX](#)

Sep. 24 (Wed.) 14:00

Dr. Naomichi Ezumi (Plasma Research Center, University of Tsukuba)

I15: [Global Particle in Cell simulations for the Novatron concept](#)

Sep. 24 (Wed.) 15:30

Dr. Kristoffer Fredrik Lindvall (Novatron Fusion Group)

I9: [Hydrodynamic limit of the helical multiple-mirror confinement](#)

Sep. 24 (Wed.) 15:55

Dr. Alexei Dmitrievich Beklemishev (Budker Institute of Nuclear Physics, Novosibirsk, Russia)

I10: [Realta's Theory and Modeling Activities](#)

Sep. 24 (Wed.) 16:20

Dr. Samuel Frank (Realta Fusion)

I13: [Simulations of plasma confinement in mirror traps with electron kinetics](#)

Sep. 26 (Fri.) 9:15

Prof. Igor Timofeev (Budker Institute of Nuclear Physics SB RAS)

I14: [Drift-cyclotron loss-cone and MHD instability in kinetic-ion simulations of simple mirrors](#)

Sep. 26 (Fri.) 9:40

Dr. Aaron Tran (University of Wisconsin - Madison)

I11: [Determination of incident ion flow velocities in two-ion-species plasmas with finite ion temperature using a plasma fluid scheme](#)

Sep. 26 (Fri.) 10:50

Dr. Satoshi Togo (Plasma Research Center, University of Tsukuba)

Oral

O1: [Status of GOL-NB experiments in 2025](#)

Sep. 22 (Mon.) 14:55

Dr. Vladimir Postupaev (Budker Institute of Nuclear Physics)

O2: [The efficiency of non-resonant photon trap for future experiments on the neutralization of a negative hydrogen ion beam](#)

Sep. 23 (Tue.) 11:55

Mr. Magomedrizy Gadjimuradovich Atlukhanov (Budker Institute of Nuclear Physics SB RAS, Novosibirsk, Russia.)

O3: [Generation processes of electromagnetic fluxes at electron plasma frequencies due to pumping plasma waves by a high-current relativistic electron beam](#)

Sep. 23 (Tue.) 12:15

Prof. Andrei V. Arzhannikov (Budker Institute of Nuclear Physics)

O4: [Mechanisms of collisionless ions scattering in a helical magnetic mirror](#)

Sep. 23 (Tue.) 14:30

Dr. Ivan Sergeevich Chernoshtanov (Budker Institute of Nuclear Physics SB RAS)

O5: [Global properties of transonic plasma flow in the magnetic mirror](#)

Sep. 23 (Tue.) 14:50

Prof. A. Smolyakov (University of Saskatchewan)

O6: [Influence of plasma rotation on diamagnetic confinement](#)

Sep. 23 (Tue.) 15:10

Mr. Mikhail Sergeevich Khristo (Budker INP)

O7: [Experiments using Biased Electrodes to enhance NBI plasma confinement in the 17 T Axisymmetric Mirror WHAM](#)

Sep. 23 (Tue.) 16:45

Dr. Tony Qian (UW-Madison)

O8: [Plasma-material interaction studies in the linear plasma device PSI-2 and status of the JULE-PSI project](#)

Sep. 24 (Wed.) 9:55

Dr. Arkadi Kreter (Forschungszentrum Juelich (FZJ))

O9: [Influence of Initial Surface Morphology on the Temperature Threshold for W Fuzz Growth](#)

Sep. 24 (Wed.) 10:40

Dr. Quan Shi (the University of Tokyo)

O10: [Fabrication of tungsten co-deposited layers with deuterium and helium plasma exposures](#)

Sep. 24 (Wed.) 11:00

Dr. Dogyun Hwangbo (University of Tsukuba)

O11: [Influence of the ion source geometry on plasma production in the linear plasma device JULE-PSI](#)

Sep. 24 (Wed.) 11:20

Dr. Rahul Rayaprolu (Forschungszentrum Juelich)

O12: [Effect of Electron Cyclotron Heating and Ion Cyclotron Heating on \$H\alpha/H\beta\$ profile during Nitrogen and Hydrogen seeding in GAMMA 10/PDX Divertor Simulated Plasmas](#)

Sep. 24 (Wed.) 14:25

Mr. Takuma Okamoto (Plasma Research Center, University of Tsukuba)

O13: [Observation of ion temperature anisotropy in a mirror trapped plasma with the electron cyclotron resonance source](#)

Sep. 24 (Wed.) 14:45

Dr. Atsushi Okamoto (Nagoya University)

O14: [Kinetic full wave analysis of ICRF waves in axisymmetric mirror plasma](#)

Sep. 24 (Wed.) 16:45

Prof. Atsushi Fukuyama (Kyoto University)

O15: [Fluctuation flow velocity measurement using multichannel Doppler backscattering system with additional central ECH in GAMMA 10/PDX](#)

Sep. 25 (Thu.) 9:45

Dr. Junko Kohagura (University of Tsukuba)

O16: [Effect of cooling of plasma facing materials on its temperature response and heat flux estimation in a divertor simulator experiment](#)

Sep. 25 (Thu.) 10:05

Prof. Hiroto Matsuura (Osaka Metropolitan University)

O17: [Measurement of the scale length of the recombination front in a volumetric recombining plasma using NUMBER](#)

Sep. 25 (Thu.) 11:15

Mr. Kota TAKEDA (Nagoya University)

O18: [Development of V-band frequency steering phased array antenna for Doppler backscattering measurements](#)

Sep. 25 (Thu.) 11:35

Dr. Seong-Heon Seo (Kstar Reserach Center)

O19: [Self-consistent kinetic simulations of a radio-frequency plasma source in Pilot GAMMA PDX-SC](#)

Sep. 26 (Fri.) 10:05

Dr. Kazuma Emoto (National Institute for Fusion Science)

O20: [Reduced MHD for modeling nonlinear evolution of plasma in high-beta paraxial traps](#)

Sep. 26 (Fri.) 11:15

Dr. Alexei Dmitrievich Beklemishev (Budker Institute of Nuclear Physics, Novosibirsk, Russia)