

## Plasma Physics Seminar Archive

Date	Speaker	Talk Title
2018-2019		
Monday, June 17, 2019	Yogesh Gianchandani	Microfabricated devices for vacuum and gas phase
2:00PM	(University of Michigan, Ann Arbor)	environments
Wednesday, June 12, 2019	Seth Dorfman	Investigations of Fundamental Plasma Physics in LAPD:
3:30PM	(Space Sciences Institute & UCLA)	Alfvén Wave Parametric Instabilities / Plasma and
		Radio Wave Generation by Electron Beams
Thursday, May 30, 2019	Feng Chu	Determining Metastable Ion Lifetime and History Using
12:30PM	(University of Iowa)	Wave-Particle Interaction and Laser-Induced
		Fluorescence
Thursday, May 16, 2019	Byonghoon Seo	MHD-driven plasma jets relevant to thermonuclear
12:30PM	(Caltech)	fusion, MHD instability, and magnetic reconnection
Thursday, May 9, 2019	Noah Hurst	Dynamics of electron plasma vortices subject to
12:30PM	(UCSD)	external strain flows
Monday, April 29, 2019	Masayuki Ono	Opportunities and Challenges of Plasma Waves for
2:30PM	(PPPL)	Magnetic Fusion
Thursday, March 21, 2019	Dennis Whyte	Small, modular & economically attractive fusion
10:00AM	(Director, MIT Plasma Science & Fusion	enabled by high-field superconductors
PSTI Seminar	Center)	
Tuesday, March 12, 2019	Eric S. Clark	Introduction to Thermionic Energy Conversion
11:00AM	(Modern Electron)	
Thursday, March 7, 2019	Scott Hsu	Fusion concept exploration and basic plasma shock
1:30PM	(Director, ARPA-E Fusion Research Program,	research on the Plasma Liner Experiment at Los Alamos
	U.S. Department of Energy)	
Wednesday, November 14,	Renaud Gueroult	Rotating plasma for separation - Shocks and
2018	(Universite de Toulouse, France)	magnetosonic soliton dynamics
2:00PM		
Wednesday, September 26,	Clive Michael	Influence of magnetic configuration and RF heating on
2018	(Australian National University)	turbulence and confinement in the H1 Heliac and
1:00PM		MAGPIE linear device
Monday, July 23, 2018	Leon Ofman	Fast EUV Waves in the Solar Corona: Observations and
1:40PM	(CUA/NASA GSFC)	Models
Thursday, July 12, 2018	Dennis Papadopoulos	Saving the planet from killer electrons
1:00PM	(University of Maryland)	
2017-2018		
Monday, June 11, 2018	Hyeon Park	Validation of "Full Rennection Model" of the Sawtooth
1:00PM	(Ulsan National Institute of Science and	Crash
	Technology, Korea)	
Thursday, May 17, 2018	Tammy Ma	Creating a Star on Earth: Status of Ignition Experiments
1:00PM	(National Ignition Facility, LLNL)	at the NIF
PSTI Seminar		
Thursday, May 1, 2018	Saskia Mordijck	Particle transport from the bottom up
1:00PM	(The College of William and Mary)	
Wednesday, March 14, 2018	Professor Gunsu S. Yun	Ion cyclotron harmonic waves in the boundary of
2:00PM	(Pohang University of Science and Technology,	magnetized toroidal plasma
	POSTECH)	
Wednesday, February 21, 2018	Xiangrong "Sean" Fu	Parametric Decay Instability and Dissipation of Low-
2:00PM	(New Mexico Consortium, Los Alamos)	frequency Alfvén Waves in Low-beta Turbulent Plasmas
2016-2017		
Friday, May 19, 2017	Gregory Howes	Understanding Turbulent Heating
1:00 PM	(University of Iowa)	in Space and Astrophysical Plasmas
Friday, April 21, 2017	Shawn Tang	Parametric investigation of compressional and global
1:00 PM	(UCLA)	Alfvén eigenmode instability and effect on thermal
		confinement in NSTX-U
Thursday, January 12, 2017	Matthew Gomez	Pulsed-Power-Driven Magneto-Inertial Fusion Research
2:00 PM	(Sandia National Laboratories)	on the Z Facility

2:00 PM Tuesday, November 8, 2016 2:30 PM Friday, October 21, 2016 2:00 PM Friday, October 14, 2016 1:00 PM Tuesday, September 6, 2016 2:00 PM Thursday, August 18, 2016 1:00 PM	(LLNL) Professor Baonian Wan, Director (Institute of Plasma Physics, Chinese Academy of Sciences (ASIPP) Hefei, China) Giovanni Rossi (UCLA) Tom Neiser (UCLA) Ziyan (Zoe) Zhu (UCLA) Jonathan (Jono) Squire (Caltech) Jongsoo Yoo (PPPL)	<ul> <li>Distributions Above Strongly Emitting Surfaces</li> <li>Overview of the EAST Tokamak and Plasma Research at ASIPP</li> <li>Electromagnetic turbulence and transport in increased β LAPD Plasmas</li> <li>Multi-scale Simulations of DIII-D near-edge L-mode plasmas</li> <li>Evidence for Chaotic Edge Turbulence in the Alcator C-Mod Tokamak</li> <li>A stringent limit on the amplitude of Alfvénic perturbations in high-beta low-collisionality plasmas</li> </ul>
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1:00 PM Tuesday, September 6, 2016 2:00 PM Thursday, August 18, 2016	(Caltech) Jongsoo Yoo	perturbations in high-beta low-collisionality plasmas
2:00 PM Thursday, August 18, 2016		
		Laboratory studies of reconnection at the magnetopause
1:00 PM	David Schaffner	Turbulence and Fusion at the Tri-Co: Plasma Research
2015 2016	(Bryn Mawr)	at Bryn Mawr and Swarthmore College
<b>2015-2016</b> Friday, June 3, 2016	Kehitich Darada	Manurament of Local Internal Magnetic Eluctuations
1:00 PM	Kshitish Barada (UCLA)	Measurement of Local, Internal Magnetic Fluctuations via Cross Polarization Scattering in the DIII-D Tokamak
Friday, May 13, 2016	Laszlo Bardoczi	Multi-field/-scale Interactions of Turbulence with
1:00 PM	(UCLA)	Neoclassical Tearing Modes and Impact on Plasma Confinement in the DIII-D Tokamak
Friday, April 29, 2016 1:00 PM	Christian Fronsdal (UCLA)	How to analyze certain experiments
Thursday, February 11, 2016 2:30 PM	Walter Guttenfelder (Princeton Plasma Physics Laboratory)	Challenges and plans for transport research in the NSTX-Upgrade spherical tokamak
Friday, January 29, 2016 2:00 PM	Richard Magee and Artem Smirnov (Tri Alpha Energy, Inc.)	C-2-Upgrade Field Reversed Configuration Experiment
Friday, January 22, 2016 2:00 PM	Nathan Howard (MIT Plasma Science and Fusion Center)	Understanding Turbulence in Tokamak Plasmas Using Dedicated Experiments and Validated Gyrokinetic Simulations
Friday, December 11, 2015 2:00 PM	Christopher Chen (Imperial College, London)	Recent Results from the Solar Wind: Turbulent Residual Energy and Pressure Anisotropy Instabilities
Thursday, December 3, 2015 2:00 PM	Maria Elena Innocenti (University of Leuven, Belgium)	The Multi Domain method, a semi-implicit adaptive method for fully kinetic Particle In Cell simulations
Thursday, November 12, 2015 1:00 PM	Alejandro Bañón Navarro (UCLA) Tom Neiser	<ul> <li>Gyrokinetic studies of core turbulence features in ASDEX Upgrade: Can gyrokinetic simulations match the fluctuation measurements?</li> </ul>
	(UCLA)	<ul> <li>Electron dominated transport regimes in the near- edge tokamak plasma</li> </ul>
Tuesday, November 10, 2015 11:00 AM	Bart Van Compernolle (UCLA)	<ul> <li>Laboratory studies of avalanches in magnetized plasmas</li> </ul>
	Xin An (UCLA)	<ul> <li>Excitation of chirping whistler waves in a laboratory plasma</li> </ul>
Thursday, October 8, 2015 2:00 PM	Martin Weidl (Max-Planck-Institut für Plasmaphysik)	Charged-particle propagation in the interstellar medium
Monday, September 28, 2015 1:00 PM	Snezhana I. Abarzhi (Carnegie Mellon University)	Rayleigh-Taylor instability and interfacial mixing
Thursday, September 24, 2015 1:00 PM	David Hatch (UT Austin)	The fate of the H-mode: ITER and beyond
2014-2015		
Thursday, June 11, 2015 1:00 PM	Geert Verdoolaege (Ghent University)	Probabilistic modeling of stochastic plasma phenomena using information geometry
Tuesday, May 26, 2015	Tuomas Koskela	Modelling the JET H-mode pedestal plasma with
1:00 PM Thursday, May 21, 2015	(Aalto University, Helsinki) Marco Velli	gyrokinetic PIC codes MHD turbulence in the solar wind
1:00 PM Thursday, May 7, 2015	(UCLA) Prof. Ghassan Antar	Controlling Turbulence by RF Waves

1:00 PM	(American University of Beirut)	
Thursday, April 30, 2015	Yevgen Kazakov	On resonant ICRF absorption in plasmas with
1:00 PM	(LPP, Royal Military Academy of Belgium)	three ion species: a promising new tool for
		fast ion generation and bulk plasma heating
Thursday, April 23, 2015	Richard Sydora	Nonlinear Convective Processes in Magnetized
1:00 PM	(University of Alberta, Canada)	Temperature Filaments: Gyrokinetic Modeling
		and Experiments
Thursday, April 9, 2015	M. J. Pueschel	Recent Advances in the Theoretical Understanding of
1:00 PM	(University of Wisconsin-Madison)	Finite-Beta Tokamak Turbulence
Thursday, March 12, 2015	Rima Hajjar	On Aluminum Impurity Transport and Ablation Cloud
1:00 PM	(UC San Diego)	Shielding Effects of Tungsten Dust in Edge Plasmas
Friday, February 27, 2015	Dr. Serena Dalena	Successful Letters in Physical Review Letters:
1:00 PM	(Associate Editor, Physical Review Letters)	An Editor's Perspective
Thursday, February 26, 2015 1:00 PM	Daniel Told (UCLA)	A gyrokinetic study of dissipation in plasma turbulence
Friday, February 20, 2015	Alejandro Bañón Navarro	Turbulence in ASDEX Upgrade:
1:00 PM	(UCLA)	Can GENE simulations match the measurements?
Friday, December 12, 2014	Lothar Schmitz	First Direct Evidence of Turbulence-Driven Ion Flow
1:00 PM	(UCLA)	Triggering the L- to H-Mode Transition
Friday, December 5, 2014	Jaeyoung Park	Polywell Fusion – Electric Fusion in a Magnetic Cusp
1:00 PM	(EMC2 Fusion Development Corp.)	
Friday, November 14, 2014	Masayuki Ono	NSTX Upgrade for establishing physics and technology
12:30 PM	(NSTX-U Project Director, Princeton Plasma	basis for FNSF
	Physics Laboratory)	
Thursday, October 23, 2014	Derek Schaeffer	Generation of Collisionless Shocks by a Laser-Driven
1:00 PM	(UCLA)	Magnetic Piston
Friday, October 17, 2014	Seth Dorfman	Laboratory Studies of Nonlinear Interactions Relevant
1:00 PM	(UCLA)	to Alfvén Wave Decay Instabilities
Wednesday, October 15, 2014	Alex Paterson	Time-modulated Plasma Etching for Next Generation
2:30 PM	(LAM Research)	Devices
2013-2014		
Friday, May 23, 2014	Frank Jenko	Turbulent processes in laboratory and natural plasmas:
1:00 PM	(Max Planck Institute for Plasma Physics,	Connecting the dots
	Garching, Germany)	
Wednesday, May 21, 2014	Haihong Che	The Origin of Kinetic Turbulence in the Solar Wind
1:00 PM	(NASA/Goddard Space Flight Center)	
Friday, May 16, 2014	Klaus Hallatschek	Evolution of Zonal Flows from Turbulence in Confined
1:00 PM	(Max Planck Institute for Plasma Physics	Plasmas and Giant Planets
	and Technical University Munich, Germany)	
Tuesday, May 6, 2014	Matthew Kunz	Firehose and Mirror Instabilities in a Collisionless
11:30 AM	(Princeton University)	Shearing Plasma
Friday, May 2, 2014	William Daughton	Quantifying the Reconnection Rate in Turbulent Kinetic
1:00 PM	(Los Alamos National Laboratory)	Layers
Tuesday, April 29, 2014	Frederico Fiuza	Exploring particle acceleration in laser-driven
11:30 AM	(Lawrence Livermore National Laboratory)	collisionless shocks: from cosmic rays to radiotherapy
Friday, April 11, 2014	Edmund Highcock	Computing Plasma Turbulence in Fusion and Beyond
1:00 PM	(Magdalen College, University of Oxford)	
Friday, March 21, 2014	Carlos Paz-Soldan	Improving the physical basis of tokamak geometric
1:00 PM	(General Atomics)	tolerances
Thursday, February 27, 2014	Raffi Nazikian	Recent Advances in the Understanding of ELM
1:00 PM	(Princeton Plasma Physics Laboratory)	suppression by Resonant Magnetic Perturbations on
		DIII-D
Friday, January 31, 2014	Cami Collins	Creating a Spinning, Unmagnetized Plasma to Study
1:00 PM	(UC Irvine and DIII-D)	Astrophysical Accretion Disks and Dynamos
1:00 PM Thursday, January 9, 2014	(UC Irvine and DIII-D) Ari Le	Astrophysical Accretion Disks and Dynamos Electron Equations of State
1:00 PM Thursday, January 9, 2014 1:00 PM	(UC Irvine and DIII-D) Ari Le (UCSD and SciberQuest, Inc.)	Astrophysical Accretion Disks and Dynamos Electron Equations of State and Magnetic Reconnection
1:00 PM Thursday, January 9, 2014 1:00 PM Friday, November 22, 2013	(UC Irvine and DIII-D)         Ari Le         (UCSD and SciberQuest, Inc.)         Tulasi Parashar	Astrophysical Accretion Disks and Dynamos Electron Equations of State
1:00 PM Thursday, January 9, 2014 1:00 PM Friday, November 22, 2013 1:00 PM	(UC Irvine and DIII-D)Ari Le(UCSD and SciberQuest, Inc.)Tulasi Parashar(Jet Propulsion Laboratory)	Astrophysical Accretion Disks and Dynamos Electron Equations of State and Magnetic Reconnection Kinetic Physics of the Solar Wind
1:00 PM Thursday, January 9, 2014 1:00 PM Friday, November 22, 2013	(UC Irvine and DIII-D)         Ari Le         (UCSD and SciberQuest, Inc.)         Tulasi Parashar	Astrophysical Accretion Disks and Dynamos Electron Equations of State and Magnetic Reconnection

Friday, October 25, 2013	Christopher Chen	Plasma Turbulence in the Solar Wind
1:00 PM	(UC Berkeley)	
2012-2013		
Tuesday, June 25, 2013	Chris Cooper	Confinement in the Madison Plasma Dynamo
1:00 PM	(University of Wisconsin–Madison)	Experiment
Wednesday, June 5, 2013	Igor Kaganovich and Yevgeny Raitses	Overview of low-temperature plasma physics research
3:00 PM	(Princeton)	at PPPL
Friday, May 10, 2013	Giovanni Lapenta	Multi-scale simulations of plasma with iPIC3D: the
1:00 PM	(KU Leuven)	approach and its recent developments
Thursday, April 25, 2013	Philip R. Goode	The 1.6 m Off-Axis New Solar Telescope (NST) in Big
2:00 PM	(NJIT Distinguished Professor and Director of	Bear
	the Big Bear Solar Observatory)	
Friday, April 5, 2013	Jie Zhang	Study of internal magnetic field via polarimetry in
1:00 PM	(UCLA)	tokamaks
Tuesday, March 19, 2013	Alexander Flegel	Enhanced Multiphoton Effects in Laser-Assisted
2:00 PM	(The University of Nebraska-Lincoln)	Electron-Atom Collisions
Tuesday, March 12, 2013	Jörg Büchner	Simulation of disruptions by magnetic reconnection
1:00 PM	(Max-Planck-Institut für Sonnensystemforschung)	and possible particle acceleration by Alfven waves at the Sun
Thursday, Cohrugey 14, 2012	Yuhou Wang	Destruction of a Magnetic Mirror-Trapped Hot Electron
Thursday, February 14, 2013 1:00 PM	(UCLA)	Ring by a Shear Alfvén Wave
Tuesday, February 5, 2013	Siegfried Glenzer	Progress towards inertial confinement fusion on the
1:00 PM	(LLNL)	National Ignition Facility
Wednesday, January 9, 2013	Dmitri Uzdensky	Strong beaming of high-energy particle acceleration
3:30 PM	(University of Colorado)	and radiation in magnetic reconnection in relativistic
		pair plasmas
Thursday, November 8, 2012	Art Pak	Observation of radiative shock waves from implosion
12:30 PM	(LLNL)	experiments at the National Ignition Facility
IGPP Seminar	Seth Dorfman	Coupling of Large Amplitude Alfvén waves to Acoustic
Friday, October 19, 2012	(UCLA)	Modes in the Large Plasma Device (LaPD)
3:30-5:00 PM		
Monday, October 15, 2012	Nathan Howard	Validation of Gyrokinetic Heat and Impurity Transport
11:00 AM	(Plasma Science & Fusion Center, MIT)	in the Core of Alcator C-Mod Plasmas
Thursday, October 4, 2012	Nat Hamlin	The Role of the Kelvin-Helmholtz Instability in the
1:00 PM	(UCLA)	Evolution of Magnetized Relativistic Sheared Plasma
		Flows
Friday, September 14, 2012	Markus Roth	A bright neutron source driven by short pulse lasers
11:00 AM	(University of Darmstadt/LANL)	
Wednesday, August 22, 2012	Christian Brandt	Spatiotemporal control of drift wave turbulence
1:00 PM	(UCSD)	
2011-2012		
Friday, May 4, 2012	Chris Cooper (UCLA)	Transport in a magnetized plasma/neutral
1:00 PM	Les Hillesheim (HCLA)	gas boundary layer: the end of the plasma
Friday, April 27, 2012	Jon Hillesheim (UCLA)	Observation of a critical gradient threshold for electron
1:00 PM Thursday, March 22, 2012	Brett Friedman (UCLA)	temperature fluctuations in the DIII-D tokamak Energy dynamics in a simulation of LAPD turbulence
1:00 PM	Brett Friedman (OCLA)	Energy dynamics in a simulation of LAPD turbulence
Thursday, March 1, 2012	R.D. Sydora	A Gyrokinetic Particle Simulation of Plasma Turbulence
1:00 PM	(University of Alberta)	and Transport in LAPD (Large Plasma Device)
Thursday, February 16, 2012	Juan C. Fernández	A view of current High Energy Density and Plasma
12:30 PM	(Los Alamos National Laboratory)	Physics research at Los Alamos
Thursday, February 9, 2012	David Schaffner	Observation of improved and degraded confinement
1:00 PM	(UCLA)	and reduction of particle flux through driven flow on
		the LAPD
	Padma Shukla	Quantum Free Electron Lasers
Tuesday, January 24, 2012	(University of Bochum, Germany)	
1:00 PM		
	David Torray	Damped Modes in Plasma Turbulence
Friday, January 13, 2012	Paul Terry	Damped Modes in Flasma Turbulence

Thursday, January 12, 2012 1:00 PM	Maxim Umansky (LLNL)	Modeling of the "death-ray" phenomenon in tokomak edge
Tuesday, November 22, 2011 11:30 AM	Raanan Gad (Technion)	Magnetically Induced Transparency in Cold Magnetized Plasma by Spatially Periodic Magneto-Static Field
Wednesday, November 9, 2011 11:00 AM	Bjorn Manuel Hegelich (LANL)	Relativistic Laser-Matter Interaction in the Transparent- Overdense Regime: Particle Acceleration, Relativistic Optics and Coherent X-ray Sources
Tuesday, October 18, 2011 12:00 PM	lan Hutchinson (MIT)	Plasma flow round dust, probes, and the moon
Monday, September 19, 2011 1:00 PM	David Brower (UCLA)	Plasma Flow Driven by Kinetic Stress
Friday, October 21, 2011 11:00 AM	Louise Willingale (University of Michigan)	Ion acceleration from high-intensity laser interactions with underdense and near critical density plasma
Friday, October 14, 2011 11:30 AM	Francis F. Chen (UCLA) Davide Curreli (University of Padua, Italy)	What My Mother Never Told Me About Gas Discharges
Thursday, September 22, 2011 1:00 PM	Alexander Kosovichev (Stanford University)	Investigations of the solar interior and magnetism with SDO
2010-2011		
Monday, June 13, 2011 3:00 PM	Seth Dorfman (Princeton University)	Dynamics of Current Layer Disruptions and Associated Turbulence in the Magnetic Reconnection Experiment (MRX)
Friday, June 10, 2011 2:30 PM	Lothar Schmitz (UCLA)	Zonal Flow-Induced Predator-Prey Oscillations Preceding the L-H Transition
Friday, May 13, 2011 12:00 PM	Michael Schulz (Lockheed Martin, Retiree)	Wave-Particle Interactions in Space Plasmas
Friday, May 6, 2011 12:00 PM	Adolfo Ribeiro (UCLA/ESS)	Linear and non-linear numerical simulations of poloidal Alfvén waves
Friday, April 29, 2011 12:00 PM	Yuri Shprits (UCLA/IGPP and AOS)	Resonant Wave-particle Interactions in the Earth's Van Allen Radiation Belts
Friday, April 22, 2011 12:00 PM	Ricardo Fonseca (IST Lisbon, Portugal)	Towards Osiris 3.0 : present and future developments in the OSIRIS framework
Monday, April 18, 2011 11:30 AM	Peter Norreys (RAL, UK)	Control of fast electron beam divergence in intense laser-plasma interactions
Monday, April 4, 2011 11:30 AM	Walter Guttenfelder (Princeton Plasma Physics Laboratory)	Electromagnetic transport from microtearing mode turbulence in spherical tokamaks
Friday, April 1, 2011 12:00 PM	Stanislav Boldyrev (University of Madison-Wisconsin)	Turbulence of Alfvén waves
Friday, February 25, 2011 12:00 PM	Bill Heidbrink (UC Irvine)	THE INTRIGUING NONLINEAR DYNAMICS OF OFF-AXIS FISHBONES
Friday, February 11, 2011 2:30 PM	Andrey Zhmoginov (Princeton University)	ALPHA-channeling in mirror machines
Friday, January 21, 2011 12:00 PM	Bedros Afeyan (Polymath Research Inc.)	OPTIMAL CONtrol of nonlinear optical instabilities in Plasmas using stud pulses
Friday, Dec 3, 2010 12:00 PM	David S. Montgomery (Director, Trident Laser Facility) Los Alamos National Laboratory	Imaging X-ray Thomson Scattering and High-Energy- Density Laboratory Physics at the Trident Laser Facility
Thursday, November 18, 2010 11:00 AM	Trevor Lafleur, Christine Charles and Rod Boswell (Space Plasma Power and Propulsion RSPE, ANU, Canberra, ACT, Australia)	Broad band electron cyclotron damping in a low magnetic field helicon source
Friday, November 5, 2010 12:00 PM	Michail Tzoufras (University of Oxford)	A Vlasov-fokker-planck Code for high energy density physics
Friday, October 29, 2010 10:00AM	M.V. Umansky (LLNL)	Toward validation of a 3-D plasma turbulence model using LAPD data
Friday, October 22, 2010 12:00 PM	Arthur Pak (UCLA)	Injection of electrons via tunnel ionization into laser driven wakefields

Friday, October 15, 2010 Eri	Eric Wang	Magnetic stochasticity in gyrokinetic simulations of
12:00 PM (LL	(LLNL)	plasma microturbulence