



**HTPD 2018****Wednesday 18 April 2018****Session #10, Wednesday Morning Poster Session (10:30-13:01)**

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[17] 10.2 Time-Resolved X-Ray Diagnosis Of Hydrodynamic Processes Of Radiation-Ablated Gold Plasma In An Elongated Diagnostic Hole	LI, Hang	
[19] 10.4 Enhanced high-temperature microparticle tracking using machine learning	WOLFE, Bradley	
[20] 10.5 2D GEM based imaging detector development from perspective of high intensity soft X-ray plasma radiation	CHERNYSHOVA, Maryna	
[21] 10.6 Edge toroidal rotation shear dependence of the H-mode power threshold on EAST tokamak	JIANG, Di	
[22] 10.7 Measurement of bremsstrahlung radiation from runaway electrons with the Gamma Ray Imager on DIII-D	LVOVSKIY, A.	
[23] 10.8 Two-pass upgrade to the Thomson Scattering diagnostic on the Prototype Material Plasma Exposure eXperiment (Proto-MPEX)	KAFLE, Nischal	
[24] 10.9 Conceptual Design of a Heavy Ion Beam Probe Diagnostic for W7-X	CROWLEY, Thomas CROWLEY, T.P. DEMERS, D.R. FIMOGNARI, P.J. GRULKE, O. LAUBE, R.	
[13] 10.1 Recent Developments and Near-term Plans for DIII-D Diagnostics	PACE, David	
[18] 10.3 Effect of multi-ion source injection on motional Stark effect diagnostic	KO, Jinseok	
[26] 10.11 Prototyping and testing of the ITER plasma position reflectometry high-field side in-vessel antenna assembly	VARELA, Paulo SILVA, António BELO, Jorge	
[28] 10.13 Laser-induced fluorescence diagnostic of Ion Temperature and Density profile imaging via Pulse lasers in an oxide coated cathode argon plasma	ZHANG, qiaofeng XIE, jinlin LUO, ming FAN, feibin LU, quanming HAN, Dongqi	
[29] 10.14 Development of tracer contained compact toroid injection system	KOBAYASHI, Daichi ASAI, Tomohiko YAMADA, Shodai ISHIKAWA, Yusai TAMURA, Naoki NARUSHIMA, Yoshiro	

<b>[30] 10.15 Improved Design of Local Oscillator Optics System For Electron Cyclotron Emission Imaging On J-TEXT</b>	XIE, Xianli YANG, Zhoujun PAN, Xiaoming ZHOU, Jing ZHOU, Hao ZHUANG, Ge	
<b>[32] 10.17 The lithium beam as a diagnostic tool for measurement of current density, electron and impurity density, and main ion temperatures in an H-mode pedestal</b>	LIAO, Ken AUSTIN, Max ROWAN, William THOMAS, Dan ZHAO, Bingzhe	
<b>[33] 10.18 Laser Calibration of the DIII-D Coherence Imaging System</b>	STEVEN, Allen SAMUELL, Cameron MEYER, William HOWARD, John	
<b>[34] 10.19 Multi-frame radiography using the Crystal Backlighter Imager coupled to a new Single Line of Sight camera on the National Ignition Facility</b>	HALL, Gareth KRAULAND, Christine NAGEL, Sabrina BUSCHO, Justin THOMPSON, Nathaniel CARPENTER, Arthur DAYTON, Matthew HIBBARD, Robin BELL, Perry BRADLEY, David LANDEN, Otto AYERS, Shannon MCCARVILLE, Thomas HATCH, Benjamin HOLDER, Joe HURD, Emily KALANTAR, Daniel KOHUT, Thomas LOWE-WEBB, Roger PETRE, Robert PISTON, Kenneth ENGELHORN, Kyle HILSABECK, Terance	
<b>[35] 10.20 Development of a multi-pinhole point-backlit-radiography source</b>	VANDERVORT, Robert TRANHAM, Matthew KLEIN, Sallee SORCE, Chuck KEITER, Paul A. DRAKE, R. Paul	

<b>[37] 10.22 Recent Improvements and Successes of the NIF Opacity Spectrometer</b>	KING, James HEETER, Robert OPACHICH, Yekaterina KNIGHT, Russell AHMED, Maryum THOMAS, Archuleta JAY, Ayers EVAN , Dodd JIM, Emig KIRK, Flippo ERIC, Huffman JOHN, Kline LIEDAHL, Duane LOPEZ, Frank SCHNEIDER, schneider5@llnl.gov THOMPSON, Nathaniel PERRY, Ted	
<b>[38] 10.23 Measurements of the effective electron density in an electron beam ion trap using extreme ultraviolet spectra and optical imaging</b>	ARTHANAYAKA, Thusitha BEIERSDORFER, Peter GREGORY, Brown THOMAS, Lockard HELL, Natalie HAHN, Michael SAVIN , Daniel	
<b>[39] 10.24 Secondary Electron Emission Detectors for Neutral Beam Characterization on C-2W</b>	TITUS, James MAGEE, Richard ISAKOV, Ivan PIROGOV, Konstantin KOREPANOV, Sergey TAE TEAM, the	
<b>[40] 10.25 New ionization vacuum gauges with LaB6 emitter for long-time operation in Wendelstein 7-X</b>	WENZEL, Uwe PEDERSEN, Thomas Sunn MARQUARDT, Mirko SINGER, Martin	
<b>[41] 10.26 Photoelectric detection system of a fast-ion D-alpha diagnostic on experimental advanced superconducting tokamak</b>	LUO, F. LIU, D.M. LIU, C. WAN, B.N. CHANG, J.F. HUANG, J. GAO, W. LIU, L.C. LU, C.H.	
<b>[42] 10.27 The CHERS Diagnostic on LTX-<math>\beta</math></b>	ELLIOTT, Drew BIEWER, Theodore BELL, Ronald BOYLE, Dennis KAITA, Robert MAJESKI, Richard	
<b>[44] 10.29 Measuring dynamic fast ion spatial profiles with fusion protons in the Madison Symmetric Torus</b>	MAGEE, Richard ANDERSON, Jay BOGUSKI, John BONOFILO, Phil KIM, Jung-ha MCCONNELL, Ryan	

<p><b>[45] 10.30 High resolution x-ray spectrometer development for picosecond measurements.</b></p>	<p>MAGEE, Edward BEIERSDORFER, Peter RONNIE, Shepherd MCKELVEY, Andrew BROWN, Colin HOBBS, Lauren HILL, Matthew JAMES, Steven HOARTY, David</p>	
<p><b>[48] 10.33 X-ray Spectrometer Throughput Model for Flat Bragg Crystal Spectrometers on Laser Plasma Facilities</b></p>	<p>THORN, D. B. COPPARI, F. DOEPNER, T. MACDONALD, M. J. REGAN, S. P. SCHNEIDER, M. B.</p>	
<p><b>[51] 10.36 A Window-less Target for Magnetized Liner Inertial Fusion Characterized using High-Speed Solid-State Framing Cameras</b></p>	<p>COLOMBO, Anthony SCHWARZ, Jens SLUTZ, Stephen KIMMEL, Mark CLAUS, Liam ENGLAND, Troy FANG, Lu LOOKER, Quinn MITCHELL, Brandon MONTROYA, Andrew RAMBO, Patrick ROBERTSON, Gideon ROCHAU, Gregory SANCHEZ, Marcos STAHOVIK, John PORTER, John HUND, Jared SIN, Justin</p>	
<p><b>[52] 10.37 Calibration and Forward Modeling for Doppler Coherence Imaging Spectroscopy on MAST-U</b></p>	<p>ALLCOCK, Joseph SHARPLES, Ray SILBURN, Scott CONWAY, Neil HARRISON, James ALLEN, Steve SAMUELL, Cameron CARR, Matthew</p>	
<p><b>[54] 10.39 Measurement of Ion Acoustic Modes in Warm Dense Matter at the LCLS</b></p>	<p>MCBRIDE, Emma Elizabeth</p>	
<p><b>[57] 10.42 Correlation polarimetry for broadband fluctuation measurements</b></p>	<p>PARKE, E. DING, W. X. BROWER, D. L.</p>	
<p><b>[59] 10.44 Conceptual Design of the ITER Tangential Neutral Spectrometer</b></p>	<p>KRASILNIKOV, Vitaly BERTALOT, L POLEVOI, A POLEVOI, A KORMILITSYN, T SERIKOV, A MIRONOV, M PINCHES, S.D.</p>	

<p><b>[61] 10.46 Progress On Next Generation Gamma-Ray Cherenkov Detectors For The National Ignition Facility</b></p>	<p>HERRMANN, Hans  KIM, Y.H.  ZYLSTRA, A.B.  GEPPERT-KLEINRAT, H.  MEANEY, K.  YOUNG, C.S.  LOPEZ, F.E.  FATHERLEY, V.E.  OERTEL, J.A.  HERNANDEZ, J.E.  CARRERA, J.  RUBERY, M.S.  HORSFIELD, C.J.  GALES, S.  LEATHERLAND, A.  HILSABECK, T.  KILKENNY, J.D.  MALONE, R.M.  HARES, J.D.  DYMOKE-BRADSHAW,  A.K.L.  MILNES, J.  BATHA, S.H.</p>	
<p><b>[62] 10.47 Reflectometry diagnostics at Wendelstein 7-X: Systems overview and initial results</b></p>	<p>WINDISCH, Thomas  CARRALERO, Daniel  ESTRADA, Teresa  GRULKE, Olaf  HIRSCH, Matthias  KASPAREK, Walter  KRAEMER-FLECKEN,  Andreas  OOSTERBEEK, Johannes  PACIOS, Luis  DE LA PENA, Angel  PLAUM, Burkhard  WEIR, Gavin  WOLF, Stefan  KLINGER, Thomas  WEIR, Gavin</p>	
<p><b>[63] 10.48 On the System Stability and Calibration of the Imaging Plate/Scanner System for Plasma Diagnosis at the National Ignition Facility</b></p>	<p>HOLDER, Joe  IZUMI, Nobuhi  BEACH, Mai  AYERS, Marion Jay  BELL, Perry  SCHNEIDER, Marilyn  BRADLEY, David  KOHUT, Thomas  EHRlich, Robert  COHEN, Matthew  RAMIREZ, Rudy  THORN, Daniel</p>	
<p><b>[64] 10.49 A Non-Invasive Method of Measuring the Height of Liquid-Metal Surface Waves</b></p>	<p>HVASTA, Michael  KOLEMEN, Egemen  FISHER, Adam</p>	

<p><b>[65] 10.50 Spectroscopy accompanied by a versatile gas injection system in the divertor plasma of the experimental campaign OP1.2 at Wendelstein 7-X</b></p>	<p>KRYCHOWIAK, Maciej  ALI, Adnan  BALDZUHN, Jürgen  BARBUI, Tullio  BIEDERMANN, Christoph  BREZINSEK, Sebastijan  EFFENBERG, Florian  FORD, Oliver  HARRIS, Jeffrey  JAKUBOWSKI, Marcin  KÖNIG, Ralf  KORNEJEW, Petra  KREMEYER, Thierry  LIANG, Yunfeng  NEUBAUER, Olaf  NIEMANN, Holger  PEDERSEN, Thomas Sunn  SCHMITZ, Oliver  SCHWEER, Bernd  WANG, Erhui  WEI, Yanling  WENZEL, Uwe  WINTERS, Victoria  ZHANG, Diahong</p>	
<p><b>[66] 10.51 The X-ray Temporal Diagnostic (XTD) for time-resolved measurements of electron temperature in warm and cryogenic DT implosions at OMEGA</b></p>	<p>KABADI, Neel  SIO, Hong  FRENJE, Johan  GATU JOHNSON, Maria  PETRASSO, Richard  STOECKL, Christian  KATZ, Joseph  CAO, D  REGAN, Sean  SHAH, R  SORCE, Andrew  SORCE, Chuck</p>	
<p><b>[68] 10.53 Scintillating fiber detectors for time evolution measurement of the triton burnup on the Large Helical Device</b></p>	<p>PU, Neng  NISHITANI, Takeo  ISOBE, Mitsutaka  OGAWA, Kunihiro  KAWASE, Hiroki</p>	
<p><b>[69] 10.54 The Neutron Camera Upgrade for MAST Upgrade</b></p>	<p>CECCONELLO, Marco  SPERDUTI, Andrea</p>	
<p><b>[71] 10.56 Observation of dynamic processes in the collisional merging of field-reversed configurations</b></p>	<p>SEKIGUCHI, Junichi  ASAI, Tomohiko  TAKAHASHI, Tsutomu  HISHIDA, Daiki  TANAKA, Fumiyuki  HOSOZAWA, Akiyoshi  ROCHE, Thomas  GOTA, Hiroshi</p>	
<p><b>[43] 10.28 Characterization of a Picosecond Gated Optical Intensifier</b></p>	<p>LITTLE, Bethany  FISHER, Yoram</p>	

<p><b>[46] 10.31 Development of Wavelength Calibration Techniques for High-Resolution X-ray Imaging Crystal Spectrometers on EAST</b></p>	<p>LYU, Bo CHEN, Jun HU, Rui Ji DELGADO-APARICIO, L.F. WANG, F.D. BITTER, M. HILL, K. PABLANT, N. YANG, X.S. ZHANG, H.M. LEE, S.G. YE, M.Y. SHI, Yuejiang WAN, Baonian</p>	
<p><b>[50] 10.35 Integrated 2D Beam Emission Spectroscopy for the HL-2A/2M Tokamaks</b></p>	<p>YAN, Zheng JAEHNING, Kurt MCKEE, George SMITH, Michael HARLANDER, John KRIETE, Matt QIN, Xijie KE, Rui WU, Yifan WU, Ting XU, Min</p>	
<p><b>[55] 10.40 Development of a three-wave far-infrared laser interferometry and polarimetry diagnostics for the C-2W FRC experiment</b></p>	<p>DENG, Bihe ROUILLARD, Mark FENG, Ping BEALL, Michael ARMSTRONG, Sam CASTELLANOS, Josie KINLEY, John OTTAVIANO, Angelica SETTLES, Greg SNITCHLER, Greg WELLS, Jason ZIAEI, Shawn TAE TEAM, the</p>	
<p><b>[58] 10.43 Estimating Equatorial Electron Temperature in a NIF Hohlraum Using Time-Resolved X-Ray Emission Spectroscopy of Mid-Z Tracer Elements*</b></p>	<p>WIDMANN, Klaus BARRIOS, Maria LIEDAHL, Duane SCHNEIDER, Marilyn THORN, Daniel JARROTT, Charlie MACLAREN, Stephan CHEN, Hui FARMER, William JONES, Oggie KAUFFMAN, Bob LANDEN, Otto MEEZAN, Nathan SHERLOCK, Mark MOODY, John</p>	
<p><b>[60] 10.45 Reconstruction and Analysis of Exploding Wire Particle Trajectories via Automatic Calibration of Stereo Images</b></p>	<p>SZOTT, Matthew WANG, Zhehui RUZIC, David N.</p>	



<b>[67] 10.52 Millimeter-wave system-on-chip advancement for fusion plasma diagnostics</b>	YU, Jo-han CHANG, Yu-Ting YE, Yu PHAM, Anh-Vu TOBIAS, Benjamin ZHU, Yilun DOMIER, Calvin LUHMANN, Neville	
<b>[70] 10.55 Development of thermal image plate using ceramics luminescence materials for aligning and stabilizing beam axis of CO2 laser</b>	OHTANI, Yoshiaki SASAO, Hajime SAKUMA, Takeshi	
<b>[135] 10.34 A compact X-ray streak camera on Shenguang-III laser facility</b>	ZHANG , Xing	
<b>[27] 10.12 First step towards a synthetic diagnostic for magnetic fluctuation measurements using cross-polarization scattering on DIII-D</b>	WANG, Guiding RHODES, T.L. CROCKER, N.A. PEEBLES, W.A. BARADA, K.	
<b>[31] 10.16 Further Studies of the Analogue Saturation Limit of MCP-PMTS</b>	MILNES, James CONNELLY, Tom HORSFIELD, Colin LAPINGTON, Jon	
<b>[36] 10.21 Surface eroding thermocouples for fast heat flux measurement in DIII-D</b>	REN, Jun DONOVAN, Daivd WATKINS, Jon WANG, HuiQian RUDAKOV, Dmitry MURPHY, Christopher UNTERBERG, Ezekial THOMAS, Dan BOIVIN, Rejean	
<b>[47] 10.32 Combination Doppler Backscattering/Cross-Polarization Scattering Diagnostic for the C-2W Field-Reversed Configuration</b>	SCHMITZ, L. LAU, C. FULTON, D. DENG, B.H. GOTA, H. THOMPSON, M. LIN, Z. TAJIMA, T. BINDERBAUER, M. TAE TEAM, the	
<b>[53] 10.38 Ab Initio Response Functions for Cherenkov-based Neutron Detectors</b>	SCHLOSSBERG, David BEEMAN, Bart ECKART, Mark GRIM, Gary HARTOUNI, Edward HATARIK, Robert MOORE, Alastair RUBERY, Michael SAYRE, Daniel WALTZ, Cory	

<b>[56] 10.41 Overview of the Wendelstein 7-X phase contrast imaging diagnostic and results from the OP1.2a campaign</b>	EDLUND, Eric PORKOLAB, Miklos GRULKE, Olaf VON STECHOW, Adrian BÖTTGER, Lukas-Georg THE W7-X TEAM, and	
<b>[25] 10.10 Analysis of systematic trends in experimental observables for direct-drive cryogenic targets on OMEGA</b>	BOSE, Arijit	