

OPTO2023 Poster Program

6月13日 (13th June) 15:15-17:15

| ポスター 番号 Poster Number | ベストポスター 賞対象 Best Poster award applicant | 発表者氏名 Presenter | 代理発表者 Substitute Presenter | 研究課題名 Research Title |
|--------------------------------|--|-------------------------|-------------------------------|--|
| 13-01 | | Akira Sasaki | | Statistical simulation of optical material and its application |
| 13-02 | | Shinsuke Fujioka | | Tailoring of Relativistic Laser-Plasma Interactions in Multi-Pico-Second Time Scale |
| 13-03 | | Francisco Cobos Campos | Takayoshi Sano | Dependence of Richtmyer-Meshkov Instability growth on gas compressibility |
| 13-04 | * | Naoki HIGASHI | | Generation of superponderomotive electrons using multipicosecond relativistic-intensity laser |
| 13-05 | | Ryo Yamazaki | Shuta Tanaka | Experiments of collisionless shocks propagating into magnetized plasma |
| 13-06 | | KOENIG | Yoichi Sakawa | Radiative shocks as star progenitors |
| 13-08 | | Alessio Morace | | Demonstration of ultra-high intensity LFEX with Hyperbolic Plasma Mirror for generation of Relativistic Electromagnetic Shock and near-relativistic ion beams. |
| 13-09 | | Shuta Tanaka | | Structure of magnetized bow shock and magnetic reconnection in astrospheres |
| 13-10 | * | Nima Bolouki | Kiyochika Kuramoto | Experimental investigation on the magnetic reconnections driven by electron dynamics. |
| 13-11 | | Shuta Tanaka | | Preparation to laser experiments of induced Compton Scattering |
| 13-12 | * | Taichi Takezaki | | Development of pulsed magnet for magnetized collisionless shock experiment using high power laser |
| 13-13 | | Shota Kisaka | Shuta Tanaka | Theoretical study for experimental verification of coherent radiation and stimulated emission conditions for fast radio bursts |
| 13-14 | | ONO SHINGO | Yuma Takeda | Development of broadband antireflection structure in THz region |
| 13-15 | | Makoto Asakawa | Makoto Nakajima | Smith-Purcell radiation emitted from a femtosecond electron bunch. |
| 13-16 | | Masahiko Tani | Makoto Nakajima | Study on high-efficiency terahertz wave generation by metallic spintronic devices |
| 13-17 | | Mihoko Maruyama | Makoto Nakajima | Terahertz spectroscopy identification and imaging of biomineral crystal polymorphs |
| 13-18 | | Sang-Seok Lee | Makoto Nakajima | Application of Japanese Traditional Pattern (Seigaiha Pattern) to THz-SRR Pattern |
| 13-19 | | Koichi Kan | Makoto Nakajima | Ultrafast detection of terahertz electric field induced by quantum beam |
| 13-20 | * | Hideaki HABARA | Yoshinori Ueyama | Modeling of magnetic field creation via resistivity gradient in the high density plasma |
| 13-21 | | Hiroyuki Furukawa | | Development of integrated simulation code on laser processing using ultra short pulse lasers. |
| 13-22 | | Minoru Tanabe | | Evaluation of laser speckles with red, green, and blue colored laser light sources and its suppression |
| 13-23 | | Manabu Heya | Keisuke Shigemori | Study on optimization of laser peening conditions |
| 13-24 | | Shigenobu Hirose | Takayoshi Sano | Radiation MHD simulations of accretion disks |
| 13-25 | | Yasuhisa Oda | | Development of real-time target control system for application of repetitive-pulse high-power laser |
| 13-26 | | Hiroshi Furuta | | THz radiation and absorption properties of CNT films |
| 13-27 | | Atsushi Sunahara | Tomoyuki Johzaki | Numerical modeling of plasma facing materials |
| 13-28 | | Chiko Otani | | Research and Development of MKIDs detector using superconducting metamaterial |
| 13-29 | | Hiaraku Ogino | | Development of novel excitonic luminescence materials by layered mixed-anion compounds |
| 13-31 | | Marilou Cadatal RADUBAN | Toshihiko Shimizu | Exploring fast ultraviolet cross-luminescence scintillation from barium fluoride crystal under high pressure |
| 13-32 | | Yasushi FUJIMOTO | | Development on advanced functional optical fiber devices and its application |
| 13-33 | * | Hiroshi Yoshikawa | Yusuke Takaoka | Production of Organic Functional Crystals by Using Intensive Lasers |
| 13-34 | | Yusuke Mori | Masashi Yoshimura | Development of high-quality optical borate crystals |
| 13-35 | | Yuui Yokota | Kohei Yamanoi | Growth and evaluations of optical properties of novel oxide single crystals with high melting point |
| 13-37 | | Tomoyuki JOHZAKI | | Development of electron beam control scheme using kilo-tesla-class self-generated-resistive magnetic fields |
| 13-38 | | Yasunobu Arikawa | Akifumi Yogo | Laser driven polarized neutron generation and proof of principle of high magnetic field measurement |
| 13-39 | * | Akifumi Iwamoto | Tianyun WEI | Pure proton/deuteron beam acceleration by a cryogenic cooling solid hydrogen target |
| 13-40 | * | Akifumi Yogo | Zechen Lan | "Dynamic Neutron Analysis" enabling single-shot measurements of nuclei |
| 13-41 | * | Yuki Abe | Ryota Matsuura | Study on laser-driven repetitive particle acceleration using liquid jet targets |
| 13-42 | | Hitoshi Sakagami | | Guiding Effects of Fast Electrons by Extreme Intense Pathfinder Laser |
| 13-43 | | Tomoyuki JOHZAKI | | Effects of kilo-tesla-class magnetic fields on ignition and burn dynamics in fast ignition laser fusion |
| 13-44 | | Akifumi Iwamoto | | レーザー核融合未臨界研究炉の核融合中性子-熱変換特性の評価 |
| 13-45 | * | Yoshinori Ueyama | | Confinement effects of fast electrons by azimuthal magnetic field along hollow structure |
| 13-46 | | Yoshiteru Yonetani | | Exciton quantum dynamics in the molecular logic gates for quantum computing |
| 13-47 | | Yasuhiro Miyasaka | | Optically Synchronized Nd:YAG Pump Laser for Sub-nanosecond OPCPA |
| 13-48 | * | Takumi Hashi Timothy | | "Molecular dynamics simulation of gapped DNA labeled with fluorescent probes" "蛍光色素分子で標識したギャップ損傷DNAの分子動力学シミュレーション" |

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|--------------------------------|--|--------------------|-------------------------------|---|
| 13-49 | | Hirimitsu Kiriyama | | Temporal contrast enhancement at the J-KAREN-P petawatt laser facility/ J-KAREN-Pペタワットレーザーの時間コントラスト向上 |
| 13-50 | * | Kotaro Masumoto | | Molecular dynamics study of fluorescent dye-labeled DNA with apurinic/apyrimidinic sites 蛍光色素分子で標識した脱塩基部位損傷DNAの分子動力学研究 |
| 13-51 | * | Liu Chang | | Characterization of Au 2-4 KeV X-ray spectrum in ion- acceleration experiment with plasma mirror system |
| 13-52 | * | Daisuke Shimizu | | Exploration of crystallization control methods for organic materials/organic solvent systems using laser trapping. レーザートラッピングを用いた有機材料/有機溶媒系の結晶化制御法の探求 |
| 13-53 | | Tomoyuki Endo | | Size distribution of DNA fragmented by a femtosecond laser filament in water |
| 13-55 | * | Minh Nhat LY | | Conditions of structural transition for collisionless electrostatic shock |
| 13-56 | | Kaoru Sugimoto | | 相対論的レーザープラズマ相互作用における陽電子生成・加速機構の自己形成 |
| 13-57 | | Takehito Hayakawa | | 宇宙核時計Lu-176の半減期計測 |

OPTO2023 Poster Program

6月14日 (14th June) 13:00-15:00

| ポスター 番号 Poster Number | ベストポスター 賞対象 Best Poster award applicant | 発表者氏名 Presenter | 代理発表者 Substitute Presenter | 研究課題名 Research Title |
|--------------------------------|--|---------------------------|-------------------------------|---|
| 14-01 | | Tatsunosuke Matsui | | Terahertz fast switching utilizing organic semiconductors |
| 14-02 | | Iwao Kawayama | | Development of ultra-fast terahertz wave measurement system and measurement of conductivity with thermodynamic fluctuation |
| 14-03 | | Fumiyoshi Kuwashima | Makoto Nakajima | simultaneity of laser modes in laser chaos through plasmon antenna |
| 14-04 | | Kotaro Makino | | Terahertz characterization of materials for post 5G/6G technologies |
| 14-05 | | Ken Morita | Makoto Nakajima | Spin manipulation using high power THz pulse |
| 14-06 | | Shigeki Nashima | | Fabrication of metal hole with sharp transmission spectra in terahertz region |
| 14-07 | | Arnel A Salvador | Nobuhiko Sarukura | Radiation damage investigations on MBE-grown GaAs/Si epilayers |
| 14-08 | | Kaori Kobayashi | Nobuhiko Sarukura | Selective Decontamination of Tritium in Radioactive Water Using Terahertz and Ultraviolet Light |
| 14-09 | | Fumiyoshi Kuwashima | Makoto Nakajima | Low cost and stable CW-THz spectroscopy for volcanic ash |
| 14-10 | | Masayuki Fujita | | Research on development, control, applications of quantum beam sources |
| 14-11 | | KANABE Tadashi | Jumpei Ogino | Improvement of LFEEX laser system. |
| 14-12 | | Tomoya Nakamura | Yasunobu Arikawa | Optical image transfer by using a multimode fiber |
| 14-13 | | Keisuke Shigemori | | Revisit of the ablation scaling with high power laser irradiation |
| 14-14 | | Yuichi Inubushi | | Study of transient state of intense-laser-produced plasma using femtosecond X-ray spectroscopy |
| 14-15 | | Yasuhiko Sentoku | Takayoshi Sano | Study of isochoric heating physics driven by intense laser using XFEL |
| 14-16 | | Yasuhiko Sentoku | Natsumi Iwata | Developing a photon scattering model in non-thermal high energy density plasmas in PICLS code |
| 14-17 | | Natsumi Iwata | | Theoretical study on particle acceleration in high energy density plasmas created by kJ class ultraintense lasers |
| 14-18 | | Yoshitaka MORI | | Investigation of electromagnetic wave propagation absorption and plasma heating with counter-illuminating intense laser pulse |
| 14-19 | * | Youichi Sakawa | Shunsuke Egashira | Particle acceleration via magnetic reconnection using coil target |
| 14-20 | | Shogo Isayama | Takayoshi Sano | Particle acceleration by counter propagating waves in magnetized plasma |
| 14-21 | | Akira Mizuta | Kentaro Sakai | Study of laboratory experiments of hydrodynamic instabilities in astrophysical jet propagation by ultra-intense lasers |
| 14-22 | | Ieyasu Tokumoto | Akifumi Yogo | Development of New Soil Moisture Detection System by Neutrons |
| 14-23 | | Yuji Fukuda | Yoichi Sakawa | Ion acceleration using collisionless shocks produced in nonequilibrium plasmas |
| 14-24 | * | Yutaka Ohira | King Fai Farley LAW | Investigation of plasma instabilities in the collisionless shock foot region |
| 14-25 | | Chihiro Matsuoka | | Nonlinear interaction in multi-layer fluid interfaces with density stratification |
| 14-26 | | Hiroaki Furuse | Kana Fujioka | Development of transparent ceramics |
| 14-27 | | Takayoshi Sano | | Decay instabilities of whistler waves in solar wind plasmas |
| 14-28 | | Takahiro Kawamura | | First principles calculation of optical and thermal properties of GaN |
| 14-29 | | Shinji Motokoshi | | Additive manufacturing of silica glass structure by laser writing |
| 14-30 | | Youhei MASADA | Takayoshi Sano | Development of a sub-grid scale model for a stellar convective transport |
| 14-31 | | Mitsuo KOIZUMI | Lee Jaehong | Development of a system for neutron resonance transmission analysis using a laser driven neutron source |
| 14-32 | | Yuki Iwasa | Kohei Yamanoi | Luminescence properties of rare-earth doped mixed-anion compounds |
| 14-33 | | Vallerie Ann Innis Samson | Nobuhiko Sarukura | ZnO Synthesis (via Spray Pyrolysis) and Optical Characterization for Radiation Detection |
| 14-34 | | Joel T. Asubar | | PL spectroscopy of ex-situ regrown AlGaIn layers for enhancement mode GaN-based MIS-HEMTs |
| 14-35 | | Shunsuke Kurosawa | | Development of Transparent Ceramics III |
| 14-36 | | Nobuhiro Umemura | Masashi Yoshimura | Measurements for refractive indices of optical materials in the vacuum UV |
| 14-37 | | Norimasa Ozaki | Kazuru Chiba | Observation of phase transition kinetics using laser-driven decaying shock compression |
| 14-38 | | Tomoko Sato | Masaki Nakagawa | Melting behavior of silicate during planetary evolution |
| 14-39 | | Hantao Ji | Shinsuke Fujioka | Data analysis of low-beta reconnection driven by laser-powered capacitor coils |
| 14-40 | | Nishiuchi Mamiko | Yasuhiko Sentoku | Investigation of the formation of high intensity laser produced highly charged heavy ion plasmas |
| 14-41 | | Toshihiro Taguchi | | Interaction between ultra-intense laser and plasmas |
| 14-42 | * | Mirfayzi, Seyed Reza | Zechen Lan | Laser-driven Cold/Thermal Neutron: Activation and Radiography Applications |
| 14-43 | * | Krishnamurthy Manchikanti | Tianyun Wei | Bright laser-driven x-rays and neutron source in liquid micro-cluster target via strong shock waves |
| 14-44 | | Takeshi Higashiguchi | | Regenerative D2O target for high-repetition rate laser-driven quantum beam source |
| 14-45 | | Masayasu Hata | | Ionization physics and its control on ultrahigh intense laser ion acceleration |
| 14-46 | | Akifumi Iwamoto | Akifumi Yogo | Development of a solid deuterium foil target system for laser neutron generation |
| 14-47 | | Takehito Hayakawa | Akifumi Yogo | Study of stellar nucleosynthesis using laser-driven neutrons |

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|--------------------------------|--|------------------------|-------------------------------|---|
| 14-48 | | Masaaki Tsubouchi | | Beat-frequency-resolved two-dimensional electronic spectroscopy with sub-10-fs visible laser pulses |
| 14-49 | * | Takumi Minami | | グラフェンとLFEXレーザーを用いたイオン加速 "Laser ion acceleration with LFEX laser and large-area suspended graphene" |
| 14-50 | | Kotaro Kondo | | Laser driven ion acceleration with heated polyimide tape target |
| 14-51 | | Keigo Kawase | | 単一THz FELパルスを引き出す光励起半導体反射スイッチ |
| 14-52 | | Ryouichi Hajima | | 赤外自由電子レーザーで駆動する高次高調波光源の研究 |
| 14-53 | * | Haruto Miura | | "Design proposal of SiO ₂ coated Si moth eye structures for anti-reflection of THz waves " |
| 14-54 | | Yuji Takagi | | Study of hot-electron generation by non-relativistic lasers |
| 14-55 | * | James Edward HERNANDEZ | | Optical emission diagnostics of laser-produced plasma generated extreme ultraviolet light induced on hydrogen gas |
| 14-56 | * | Chihiro Inoue | | Reproducing of J-KAREN-P experiment and future prospects using Particle-in-Cell simulation Particle-in-Cell シミュレーションによるJ-KAREN-P 実験の再現と今後の展望 |
| 14-57 | * | Tomoyuki Komatsu | | Analysis of plasma collectivity and energy transport in laser-produced high energy density plasma |
| 14-58 | | Kazunori Shibata | | Long-time behavior of nonlinear electromagnetic wave in vacuum |
| 14-59 | | Takahiro Murata | Nobuhiko Sarukura | Improvement on characteristics of Pr ³⁺ -doped glass scintillator for neutron detector |
| 14-60 | | Hajime YANO | Hideo Nagatomo | Fundamental Development of Microparticle Capture System through Hypervelocity Impact Simulations and Experiments at >10 km/s |
| 14-61 | | Nobuhisa Ishii | | Exploration of nonlinear crystals for an infrared optical parametric chirped-pulse amplifier |
| 14-62 | * | Shuichi Matsukiyo | Shogo Isayama | Long time evolution of magnetized plasma shock generated by high power laser |