Sunday, 31 August

17:00-19:00    Registration & welcome reception
Monday, 1 September

08:30-09:20  Registration
09:20-09:50  Opening addresses

09:50-10:50  Session 1 - Facilities
  09:50-10:20  MoI01  J.-L. Miquel (CEA/DIF, France)
               The LMJ facility: current status and program overview
  10:20-10:50  MoI02  C. Danson (AWE, UK)
               Orion Facility: its capabilities and first results from academic access campaigns

10:50-11:20  Coffee break

11:20-12:30  Session 2 - Facilities
  11:20-11:50  MoI03  P. Audebert (LULI, France)
               High intensity laser facilities perspective
  11:50-12:10  MoO01  M. Kalal (CTU Prague, Czech Republic)
               Substantially increased Complex Interferometry potential in case of reference interferogram availability
  12:10-12:30  MoO02  R.J. Clarke (CLF, UK)
               Active nuclear diagnostic techniques and issues relating to high repetition rate facilities

12:30-14:00  Lunch

14:00-15:00  Session 3 - Facilities
  14:00-14:20  MoO03  P.S. Foster (CLF & QUB, UK)
               Plasma mirror characterization on the picosecond timescale
  14:20-14:40  MoO04  G. Scott (CLF & Strathclyde Univ., UK)
               Plasma mirror lifetime in the double pulse regime and its applications to laser driven ion acceleration
  14:40-15:00  MoO05  L. Barilleau (CELIA, France)
               Electron dynamics at surface of dielectrics induced by intense and short laser pulses

15:00-15:50  Session 4 - Inertial Confinement Fusion
  15:00-15:30  MoI04  S. Fujioka (ILE, Japan)
               Strong Magnetic Field Generation for Inertial Confinement Fusion and High Energy Density Physics
15:30-15:50  MoO06  S. Guskov (Lebedev Phys. Inst., Russia)
Gigabar shock wave driven by laser-produced fast electrons for shock ignition and EOS investigations

15:50-16:20  Coffee break

16:20-18:30  Poster session 1

MoP1-01  T. Asavei  Materials in Extreme Conditions at ELI-NP
MoP1-02  D. Bénisti  Nonlinear growth and damping rates of an electron plasma wave
MoP1-03  L. Borisenko  Foam-target plasma features for heavy-ion stopping: from ideas and expectations to measurements
MoP1-04  A. Colaïtis  Modeling of Cross Beam Energy Transfer in Direct-Drive Implosions
MoP1-05  F. Consoli  Measurements of the RF-Microwave EMP in the ABC laser facility
MoP1-06  J. Dostal  New 2-directional Femtosecond Plasma-Probing Technique at PALS Research Infrastructure
MoP1-07  S. Faik  2D radiation-hydrodynamic simulations of hohlraum targets driven by intense laser beams
MoP1-08  I.B. Földes  Prepulse reduction of KrF laser pulses by plasma mirrors
MoP1-09  M. Galimberti  Short Pulse Improvements in the Vulcan Laser System
MoP1-10  D. Golishnikov  Numerical studies of a possibility to increase temperature of X-rays in ICF targets
MoP1-11  A. G. Graham  Batch Production of Micron-scale Backlighter Targets
MoP1-12  F. Hall  Production of Low Density Foam Targets for High Repetition Rate Laser Experiments
MoP1-13  H. Hora  Kilotesla Magnetic Assisted Laser Ignited Boron fusion with Nonlinear Force Driven Ultrahigh Accelerated Plasma Blocks
MoP1-14  A. Inglebert  Ionic species separation in the hot spot of marginally igniting targets
MoP1-15  I. Iosilevskiy  Binodal layer in adiabatic expansion of material under fast laser or heavy ion heating of condensed matter
MoP1-16  H.J. Kong  Kumgang laser - 4 x 0.1 J @ 10 kHz / 10ns coherent beam combination laser using SBS-PCMs
MoP1-17  P.A. Kuchugov  Hydrodynamic instabilities and mixing in the direct-drive laser targets for the megajoule scale facilities
MoP1-18  Y. Maheut  Experiment on the propagation of a shock wave in planar and spherical geometry
MoP1-19  S. Moustaizis  Species Separation in p 11B laser fusion and the effect of Alphas in the solid fuel
| MoP1-20 | M.N. Notley | Vulcan Target Area Long Pulse Beamline Improvements |
| MoP1-21 | P. Oliveira | Development of long pulse capability on the Vulcan laser system |
| MoP1-22 | B.E. Peigney | Ion kinetic effects on the ignition and burn of ICF targets |
| MoP1-23 | A.S. Ul'yanov | Study of cryogenic ICF target compression at different laser pulse parameters |
| MoP1-24 | G.A. Vergunova | Simple model for indirect target compression under conditions close to the NIF laser facility at 1.5. MJ energy |
| MoP1-25 | R. Yakhin | 2D modeling of direct drive targets compression for laser facility UFL-2M for various EOS |
Tuesday, 2 September

09:00-10:50  Session 5 – Inertial Confinement Fusion

09:00-09:30  TuI05  O. Landen (LLNL, USA)
NIF Laser-Matter Experiments: Status and Prospects

09:30-09:50  TuO07  V.A. Lykov (VNIITF, Russia)
The numerical simulations of indirect - drive targets for thermonuclear ignition on megajoule lasers

09:50-10:10  TuO08  C. Baccou (LULI, France)
Proton-boron fusion reactions initiated by laser

10:10-10:30  TuO09  V.B. Rozanov (Lebedev Phys. Inst., Russia)
Direct drive targets for the Megajoule Laser facility: 1D compression and 2D effects

10:30-10:50  TuO10  J. Badziak (IPPLM, Poland)
Efficient acceleration of heavy macro-particles in the LICPA accelerator

10:50-11:20  Coffee break

11:20-12:30  Poster session 2

TuP2-01  T. Audet  Ionization induced electron injector for multi-stage laser plasma accelerator

TuP2-02  B. Aurand  Studies of TNSA acceleration using a split-pulse setup

TuP2-03  B.R. Avchyan  Harmonic generation via multiphoton resonant channels by x-ray free electron laser

TuP2-04  S.G. Bochkarev  Attosecond X-ray pulses generation via Thomson scattering of a non-paraxial ultra-short laser pulse

TuP2-05  A.V. Bogatskaya  Analytical modeling of evolution of a plasma channel created in rare gases by femtosecond UV laser pulse

TuP2-06  R.A. Cairns  Electric Fields and Ion Acceleration produced by Collisionless Shocks

TuP2-07  D. Carroll  Measurement of fast electron beam propagation within a glass target irradiated by an ultra-intense laser pulse

TuP2-08  M. R. Edwards  Enhanced attosecond bursts of relativistic high-order harmonics from low-electron-density solids

TuP2-09  J. Ferri  Production of Betatron radiation with a 3 PW and 500 fs laser

TuP2-10  Y. Fukuda  Ion Acceleration based on the Interaction between High Power Laser and Cluster Medium

TuP2-11  M. Grech  The PIC Code SMILEI: a new open-source code for simulating matter irradiated by light at extreme intensities
TuP2-12  Z. Henis  Increase of lifetime of high density plasma channel generated by dual femtosecond- nanosecond laser pulse
TuP2-13  K.A. Ivanov  Supra-hot electrons generation at interaction of high power fs laser pulse with undercritical pre-plasma
TuP2-14  M. King  Enhancement of laser-ion acceleration in the near critical density regime
TuP2-15  K. Kovács  Obtaining Single Attosecond Pulse from Two 50-fs Laser Pulses
TuP2-16  S. Monchocé  Optical properties of relativistic plasma mirrors
TuP2-17  E.N. Nerush  Laser-driven hole boring and gamma-ray emission in overdense plasmas
TuP2-18  B. Paradkar  Integrated modeling of multi-stage laser wakefield acceleration inside a dielectric capillary tube
TuP2-19  M. Pocsai  Particle Acceleration in Underdense Plasmas
TuP2-20  S. Rassou  Electron laser wakefield acceleration: influence of a longitudinal magnetic field
TuP2-21  M. Raynaud  2D PIC simulations of surface plasma wave excitation in dense plasma and its consequence on particle acceleration
TuP2-22  D. Rusby  Development of a Scintillator Diagnostic to Characterize X-ray Spectra in the 50-300 keV range
TuP2-23  D.V. Torshin  The gas target simulations for charge particle acceleration by picosecond laser pulse
TuP2-24  F. Valle-Brozas  Laser Particle Acceleration at the Pulsed Laser Center (CLPU)
TuP2-25  S. Varró  Quantum description of relativistic charged particles interacting with a laser-induced plasmon wave
TuP2-26  P. Schmidt  Radiation Pressure Acceleration and Advanced Transport Methods

12:30-14:00  Lunch

14:00-16:10  Session 6 – Particle acceleration

14:00-14:30  TuI06  M.C. Kaluza (IoQ Jena, Germany)
Laser-Driven Ion Acceleration: from Thin Foils to Truly Mass-Limited Targets

14:30-14:50  TuO11  P. McKenna (Strathclyde Univ., UK)
Collective electron and ion dynamics in relativistically transparent ultraintense laser-foil interactions

14:50-15:10  TuO12  S. Ter-Avetisyan (IBS & GIST, Korea)
MeV Negative and Neutral atom beams
15:10-15:30  TuO13  S. Bedacht (TU Darmstadt, Germany)
*Laser-driven Ion Acceleration with Cryogenic Hydrogen Targets*

15:30-15:50  TuO14  J. Braenzel (MBI, Germany)
*Laser ion acceleration with optimized foil target morphology and atomic composition*

15:50-16:10  TuO15  J. Fernández (IFN Madrid, Spain)
*Characterization of laser driven deuterium ions and their use for potential compact sources of neutrons for applications*

16:10-16:40  Coffee break

16:10-18:20  Session 7 – High Energy Density Physics

16:40-17:10  TuI07  A. Benuzzi-Mounaix (LULI, France)
*Study of warm dense matter for planetology*

17:10-17:40  TuI08  W. Cayzac (GSI, Germany)
*Ion energy loss at the stopping-power maximum in a laser-generated plasma*

17:40-18:00  TuO16  P. Forestier-Colleoni (CELIA, France)
*Magnetic fields measurement at the interaction surface of an irradiated target*

18:00-18:20  TuO17  J. Krása (IoP ASCR, Czech Republic)
*Production of fast neutrons through beam-target reactions driven by PALS laser system*
Wednesday, 3 September

09:00-10:50  Session 8 – Particle acceleration

09:00-09:30  WeI09  W. Leemans (LBNL, USA)
Towards laser plasma accelerators for future colliders and light sources

09:30-09:50  WeO18  M. Hansson (Lund Univ., Sweden)
Composite gas targets for controlled injection and acceleration in laser plasma wakefields

09:50-10:10  WeO19  N. A. Andreev (Moscow State Univ., Russia)
Laser wakefield electron acceleration in guiding structures at broken cylindrical symmetry

10:10-10:30  WeO20  J. Viera (GoLP, Portugal)
Doughnut wakefields driven by higher order lasers pulses for electron and positron acceleration

10:30-10:50  WeO21  F. Desforges (LPGP, France)
Observation of the Dynamics of Electron Injection in LWFA Using X-ray Emission in Capillary Tubes

10:50-11:20  Coffee break

11:20-12:40  Session 9 – Particle acceleration

11:20-11:40  WeO22  E. Guillaume (LOA, France)
Angular-Momentum Evolution in Laser-Plasma Accelerators

11:40-12:00  WeO23  X. Davoine (CEA/DIF, France)
Improvement of the transverse properties of laser wakefield accelerated beams

12:00-12:20  WeO24  R. Ondarza-Rovira (ININ, Mexico)
Radiation from Brunel-induced Langmuir waves in ultra-relativistic laser-plasma interactions

12:20-12:40  WeO25  R. Capdessus (Strathclyde Univ., UK)
Role of radiation reaction in ion acceleration in the relativistic self-induced transparency regime

12:40-14:00  Lunch

14:00-19:00  Excursion
Thursday, 4 September

09:00-10:50  Session 10 – Strong fields

09:00-09:30  ThI10  A. Sergeev (IAP RAS Nizhny Novgorod, Russia)
New research prospects with XCELS laser facility

09:30-09:50  ThO26  A. Gonoskov (Chalmers Univ., Sweden & IAP RAS Nizhny
Novgorod, Russia)
Anomalous radiative trapping in laser fields of extreme intensity

09:50-10:10  ThO27  T. Nakamura (Fukuoka Inst. Techn., Japan)
Numerical study on quantum beam generation from laser-plasma interaction

10:10-10:30  ThO28  M. Lobet (CELIA, France)
Weibel instability in the collision of laser-induced dense relativistic pair plasmas in extreme intensity

10:30-10:50  ThO29  K. Iqbal (LMU, Germany)
The effects of retardation and radiation reaction on relativistic electron motion

10:50-11:20  Coffee break

11:20-12:30  Poster session 3

ThP3-01  B.R. Avchyan  Multiphoton excitations and harmonics generation in
quantum electrodynamic vacuum

ThP3-02  I.F. Barna  Laser assisted proton collision on light nuclei at moderate energies

ThP3-03  A. Bartnik  Low temperature photoionized plasmas induced by laser-plasma-produced EUV sources

ThP3-04  V.F. Bashmakov  Threshold for QED cascade development in different laser field configurations

ThP3-05  S. Depierreux  Experimental study of Stimulated Raman Scattering in the kinetic regime on the LULI2000 facility

ThP3-06  C. Deutsch  Pion Stopping and Meso-Molecules Formation in Ultra-Dense Plasmas of FIS/WDM Concern

ThP3-07  J.P. Didelez  DD Fusion from a Polarized HD Target

ThP3-08  Y. Franck  Semillac: A new model for spectral behavior of hot plasmas

ThP3-09  K. Glize  Experimental investigation of collective SRS driven in the picosecond, multispeckle laser-plasma interaction

ThP3-10  D.H.H. Hoffmann  High Energy Density Physics with Intense Ion- and Laser Beams at GSI and FAIR in Darmstadt
ThP3-11  M. Kado  Soft X-ray emissions from ultra-thin foiled targets irradiated with an intense pulsed laser
ThP3-12  K.V. Khishchenko  Multiphase equation-of-state model for metals under conditions of intense laser influences
ThP3-13  P. Knotek  The role of the chemical composition on the ablation of the chalcogenide glasses and thin films by pulsed UV laser
ThP3-14  P. Korneev  Intense magnetic field – plasma interaction in laboratory collisionless shocks studies
ThP3-15  N. Nissim  New prospects for laser induced shock waves in a diamond anvil cell
ThP3-16  J.C. Pain  Detailed computation of hot-plasma atomic spectra
ThP3-17  T. Pisarczyk  Pre-plasma effect on laser beam energy transfer to a dense target under conditions relevant to shock ignition
ThP3-18  A.M. Popov  Guiding and amplification of a microwave radiation in a plasma channel created in gas by intense UV laser pulse
ThP3-19  E. Raicher  The Lagrangian Formulation of Strong-Field Quantum Electrodynamics in a Plasma
ThP3-20  R. Riquier  Magnetic field reconnection in laser – plasma experiments
ThP3-21  I.V. Roudskoy  Influence of collective processes on temperature and ion charge state distribution in laser produced plasmas
ThP3-22  A.S. Shikanov  Formation of micropinch structures in laser initiated vacuum spark discharge
ThP3-23  S. Vondrova  Comparison of LPP and DPP in nitrogen source
ThP3-24  P.W. Wachulak  Applications of compact laser plasma sources for EUV microscope and diagnostics of plasma channels
ThP3-25  V. Yahia  Laser-plasma instabilities in low density foams and application to plasma induced smoothing
ThP3-26  R. Trines  Boosting Brillouin amplification via reduction of Raman scattering and filamentation

12:30-14:00  Lunch

14:00-15:50  Session 11 – X-ray sources
14:00-14:30  Thl11  G. Tallents (York Univ., UK)  X-ray sources: state-of-the-art and perspective
14:30-14:50  ThO30  J.M. Mikhailova (Princeton Univ., USA)  Laser-driven synchrotron-type emission from solid surfaces
14:50-15:10  ThO31  C.M. Brenner (Strathclyde Univ. & CLF, UK)  Optical control of laser-driven radiation sources with applications focus
15:10-15:30 ThO32 L.A. Wilson (CLF, UK)
Laser-generated γ-ray source optimization for imaging applications

15:30-15:50 ThO33 V. Toşa (NIIMP, Romania)
Single Attosecond Pulses in the Water Window from Synthesized Waveforms

15:50-16:20 Coffee break

16:20-17:50 Session 12 – Attophysics

16:20-16:50 Thl12 J. Mauritsson (Lund Univ., Sweden)
Generation and Application of Attosecond Pulses

16:50-17:10 ThO34 M.R. Edwards (Princeton Univ., USA)
Improved intensity and isolation of relativistic attosecond pulses with multi-color laser fields on solid targets

17:10-17:30 ThO35 A. Dubrouil (CELIA, France)
Spatio-spectral structures in XUV continua generated with 10-fs Terawatt post-compressed pulses

17:30-17:50 ThO36 A. Leblanc (LIDyL, France)
Optically Controlled Transient Plasma Gratings

19:00-23:00 Conference dinner
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<tr>
<th>Time</th>
<th>Session 13 – Laser-Plasma Interaction</th>
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<tr>
<td>09:30-10:00</td>
<td>FrI13 D. Hinkel (LLNL, USA)</td>
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<td>Laser-Plasma Interactions in Hohlraum Targets at the National Ignition Facility</td>
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<td>10:00-10:20</td>
<td>FrO37 R. De Angelis (ENEA, Italy)</td>
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<td>Coupling efficiency of intense laser radiation with a solid target through porous absorbers</td>
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<td>10:20-10:40</td>
<td>FrO38 C. Goyon (CEA/DIF &amp; LULI, France)</td>
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<td>Experimental investigation of the interaction between an intense short pulse laser and a long and hot plasma</td>
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<td>10:40-11:10</td>
<td>Coffee break</td>
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<td>11:10-12:10</td>
<td>Session 14 – Laser-Plasma Interaction</td>
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<td>11:10-11:30</td>
<td>FrO39 H. Ahmed (QUB, UK)</td>
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<td>Ultra-fast propagation of a charge pulse generated during intense laser solid interaction</td>
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<td>11:30-11:50</td>
<td>FrO40 P. Masson-Laborde (CEA/DIF, France)</td>
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<td>Laser plasma interaction in rugby-shaped hohlraums</td>
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<td>11:50-12:10</td>
<td>FrO41 M.P. Read (IC London, UK)</td>
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<td>The effects of magnetised transport on long-pulse beam propagation in laser-plasmas</td>
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<td>12:10-12:30</td>
<td>Closing remarks</td>
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<td>12:30-14:00</td>
<td>Lunch</td>
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