

POSTERS		
	Name	Poster Title
P1	M. Cutroneo	Graphite oxide based targets applied in laser...
P2	M. Cutroneo	Fabrication and characterization of porous ...
P3	P. Malinský	Laser modification of graphene oxide layers ...
P4	V. Romano	Raman investigation of Laser-Induced ...
P5	F. Jin	Fluorescent defects in Colloidal Crystals ...
P6	M. Moradi	Laser Surface Hardening of AISI 410 Stainless ...
P7	V. Nassisi	Low Emittance Yttrium Ion Beams for Surface ...
P8	A. Feng	Research on formation mechanism of dynamic...
P9	N. Restuccia	Nanoparticles in Liquids generated Laser as ...
P10	S. Scibilia	Laser-induced ablation of a silicon target in ...
P11	Z. S. Zhao	Fabrication of silver nanowire on flexible ...
P12	S. Spadaro	Molybdenum oxide nanocolloids prepared ...
P13	L. D'Urso	Zinc oxide nanocolloids prepared by ps ...
P14	D. Kurilovich	Short-pulse laser interaction with tin ...
P15	A. Bitam	Synthesis and spectroscopic properties ...
P16	M. Krivokorytov	Deformation and fragmentation dynamics ...
P17	A. Cannuli	Laser techniques in acoustically levitated ...
P18	C. S. A. Musgrave	Steps towards compact generation of 13.5 nm...
P19	A.A. Rupasov	Emission of a low-power laser-induced ...
P20	I. Saber	Experimental and theoretical emission spectra ...
P21	G. Costa	Diagnostics of particles emitted from laser...
P22	D. Li	The effects of strong magnetic field on the ...
P23	V. Nassisi	Accelerating field by a fast magnetic probe ...
P24	D. Kang	A new capsule design scheme to improve hot ...
P25	S. Zou	Observation of high energy coupling efficiency...
P26	R. De Angelis	$\alpha$ particle space distribution from fusion ...
P27	A. Visco	Mechanical characterization of biomedical ...
P28	C. Scolaro	Physical properties of plastic joints welded ...
P29	S. Parchegani	Simulation and direct observation of Marangoni ...
P30	O.E. Vais	Theoretical fundamentals for advanced high ...
P31	H. M. Al-Juboori	Simulation Tracing of Spatio-temporally ...
P32	N. Şahin	Comparison between experimental and ...
P33	A. Kuratov	High power terahertz pulse generation by ...
P34	G. Fiore	Travelling waves and 'time' reparametrization ...
P35	S. G. Bochkarev	Radial ion acceleration during multispecies ...
P36	N. Moroz	Resonance scattering of ultra-short laser ...
P37	A. Zaráš-Szydłowska	Laser-driven accelerator of intense collimated...
P38	K. Ivanov	High energy electrons generation in the waist ...
P39	M. Rosinski	Investigations on laser produced plasmas in ...
P40	M. Galimberti	Ultrashort optical parametric oscillator up to ...
P41	F. Ingenito	Directional Particle Selection Technique in CR39...
P42	A. Sciuto	Silicon Carbide Photodiodes for Ultraviolet ...
P43	S. Cavallaro	Plasma-laser ion discrimination by TOF ...
P44	S. A. Abbasi	Laser produced carbon plasma probed by time ...
P45	M. Benhaddad	Design and Analysis of non-linear properties ...
P46	L. Torrisi	Magnetic and electric deflector spectrometers ...
P47	A. V. Yakovets	The excitation of level in level-band system ...
P48	A. Marcu	Electromagnetic Waves Generation by fs laser ...
P49	F. Consoli	Measurement of Electromagnetic Pulses ...
P50	F. Consoli	EMP characterization at PALS on solid target ...

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# PPLA 2017

## Plasma Physics by

## Laser and

## Applications

D.to MIFT, Edificio Incubatore d'Impresa,  
 V.le Ferdinando Stango D'Alcontres 31,  
 S. Agata, (ME)  
 July 5<sup>th</sup>-7<sup>th</sup>, 2017

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**WEDNESDAY 5 JULY**

8.30	REGISTRATION	Reception
9.00	WELCOME/ OPENING REMARKS	Aula magna Ed. Incubatore
SESSION 1		
	<b>Ion acceleration</b> Chair: M. Galimberti	Aula Magna Ed. Incubatore
9.30	11 - D. Neely - Mixed ion acceleration and control studies	
10.00	O 1 - M. Okamura - Compact Neutron Source Using Lithium Driver Beam from Laser Ion Source	
10.15	O 2 - G. Ceccio - Study of ion energy distribution from laser-generated plasmas at two different intensities for accelerator applications	
10.30	O 3 - S. Ikeda - Plasma Production with Double Laser Pulses for Laser Ion Source	
10.45	O 4 - L. Torrisi - Laser Contrast and Other Key Parameters Enhancing the Laser Conversion Efficiency in Ion Acceleration Regime	
11.00	COFFEE BREAK	Room HTC-4
	<b>X-rays production and diagnostic</b> Chair: F. Consoli	Aula Magna Ed. Incubatore
11.30	12 - P. Wachulak - Nanoimaging using soft X-ray and EUV laser-plasma sources	
12.00	O 5 - A. Torrisi - Development and optimization of a "water window" microscope based on a gas-pufftarget laser-produced plasma source	
12.15	O 6 - I. Zhvaniya - Dual-energy X-ray generation by fs-laser excitation of mixed Ar/Kr clusters with varied krypton fraction	
12.30	O 7 - A. Bartnik - EUV induced, low temperature photoionized plasmas	
12.45	O 8 - A. Cannavò - Laser-Plasma parameters dependence on X-ray emission	
13.00	LUNCH	Faculty of Science and Technologies Canteen
SESSION 2		
	<b>Laser-matter interaction</b> Chair: D. Giulietti	Aula Magna Ed. Incubatore
15.00	Guest Conference Speaker - S. B. Dabagov - Advanced Channeling Technologies in Plasma and Laser Fields	
15.30	O 9 - M. Cipriani - Numerical modeling of non-equilibrium laser-produced plasmas of low-dense foam	
15.45	O 10 - A. V. Kozyrev - The Physical Nature of Electrons with "Anomalous" Energies in Fast Atmospheric Discharges	
16.00	COFFEE BREAK POSTER SESSION	HTC - 6 HTC - 4
16.30	O 11 - F. Consoli - Two-axis electro-optic measurements of Electromagnetic Pulses generated by intense nanosecond laser-plasma interaction	
16.45	O 12 - T. Robinson - Electro-optic characterisation of electromagnetic pulses produced by terawatt laser-matter interactions with conventional and optically levitated targets	
17.00	O 13 - P. Rączka - Strong electromagnetic pulses generated in laser-matter interactions with 10TW-class fs laser	
19.00	CONCERT	Sanctuary S. Maria di Montalto

# 8<sup>th</sup> Plasma Physics by Laser and Applications

## Time Table

5-7 July 2017

**THURSDAY 6 JULY**

SESSION 3		
<b>High laser intensity facilities</b> Chair: L. Torrisi		Aula Magna Ed. Incubatore
9.00	13 - L. Roso - Laser Acceleration with high repetition rate Petawatt lasers	
9.30	O 14 - M. Galimberti - Spectral gain investigation of large size OPCPA based on partially deuterated KDP	
9.45	O 15 - A. Curcio - Relativistic self-focusing in gas-jets	
10.00	O 16 - B. Martinez - Enhanced synchrotron emission from nanowire targets irradiated by high intensity lasers	
10.15	O 17 - J. Domanski - Numerical studies of acceleration of thorium ions by a laser pulse of ultra-relativistic intensity	
10.30	OFFICIAL POSTER SESSION	Aula HTC-6
11.30	COFFEE BREAK	Aula HTC-4
<b>Laser parameters and plasma diagnostics</b> Chair: D. Delle Side		Aula Magna Ed. Incubatore
12.00	14 - Folds - High contrast laser pulses with plasma mirror and with nonlinear Fourier filtering	
12.30	O 18 - M. De Marco - Multi probes EMP measurements at the PALS Facility Research Centre for different target materials	
12.45	O 19 - L. Calcagno - 4H-SiC Detectors for High and Low Energy Radiations	
13.00	LUNCH	
15.00 - 19.00	TOUR	
19.00	BANQUET	Forza d'Agro
23.00	BUS TO MESSINA	

**FRIDAY 7 JULY**

SESSION 4		
	<b>Nuclear Fusion</b> Chair: R. De Angelis	Aula Magna Ed. Incubatore
9.00	15 - S. Gus'kov - Neutronless Nuclear Reaction at Inertial Confinement of the Magnetized Plasma of Laser Accelerated Protons and Boron Nuclei	
9.30	O 20 - X. Xie - Detailed Evaluation of the Detection Efficiency for the Two-Dimensional Space-Resolving Flux Detector and the Application in Inertial Confinement Fusion	
9.45	O 21 - J. Gu - New tuning methods of the low-mode asymmetry for ignition capsule implosions	
10.00	O 22 - Z. Dai - Mitigate the tent-induced perturbations in ignition capsules by the supersonic radiation propagation	
10.15	O 23 - F. Ge - High Neutron Yield Indirect Drive Implosion Experiments on the SGIII Facility	
10.30	COFFEE BREAK	Room HTC-4
	<b>Laser applications</b> Chair: W. Nazarov	Aula Magna Ed. Incubatore
11.00	16 - R. A. Smith - High intensity laser interactions with optically levitated microtargets	
11.30	O 24 - P. M. Ossi - Surface nanostructuring, optical and SERS properties of Ag and Au particles prepared by nanosecond and picosecond ablation in water	
11.15	O 25 - V. Nassisi - Fast Current Diagnostic of Linear Pulsed Beams	
12.00	O 26 - M. Salvadori - Laser Irradiated Foam Targets: Absorption and Radiative Properties	
12.15	O 27 - M. Q. Zakaria - Plasma Confinement of silicon for ablative laser propulsion applications	
12.30	O 28 - A. M. Roszkowska - The use of Femtosecond lasers in ophthalmology	
13.00	LUNCH	Faculty of Science and Technologies Canteen
SESSION 5		
<b>Plasma effects</b> Chair: M. Cutroneo		Aula Magna Ed. Incubatore
15.00	17 - S. Sebban - Toward compact and ultra-intense laser-based soft X-ray lasers	
15.30	O 29 - D. Delle Side - Target Charging During Laser Ablation of Polyethylene targets	
15.45	O 30 - I. Iliev - Prediction of strontium bromide laser efficiency using cluster and decision tree analysis	
	O 31 - M. Tanışli - Effects of Ar Plasma Jet at Atmospheric Pressure on A Molecule	
16.15	COFFEE BREAK POSTER SESSION	HTC - 6 HTC - 4
<b>Sponsor presentation</b> Chair: G. Ceccio		Aula Magna Ed. Incubatore
16.45	T. Rooney - Optical Society American	
17.00	"Leoš Láská" AWARD PRESENTATION	
17.30	CLOSING CEREMONY	