

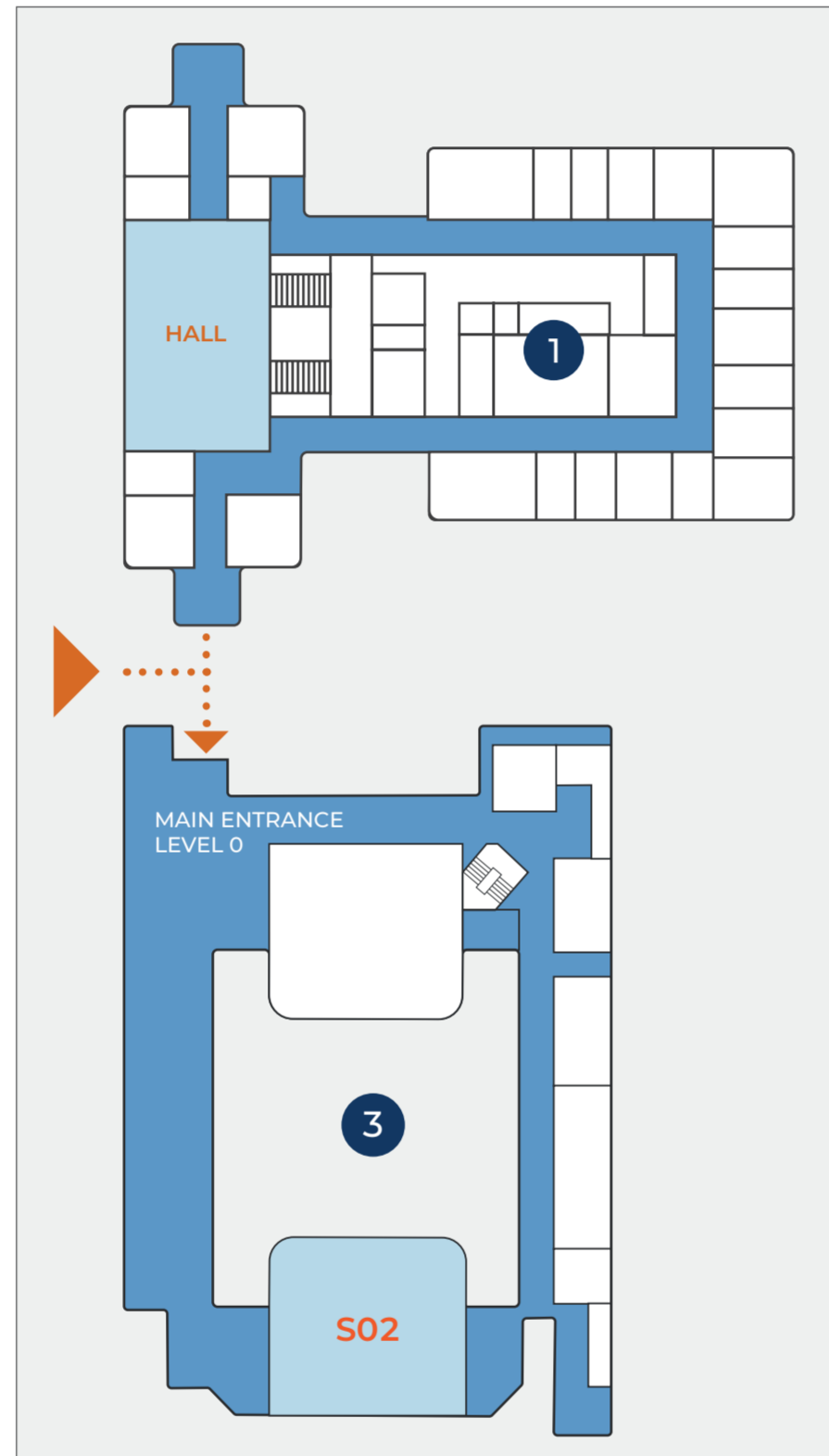
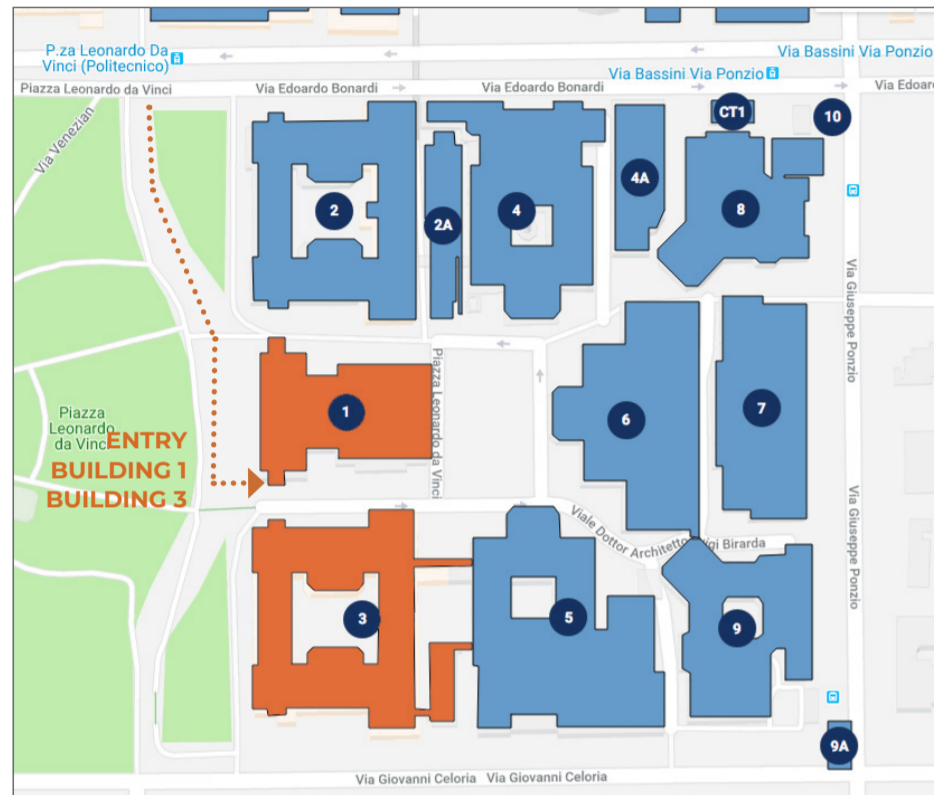
HFLPI

High-Field Laser Plasma Interaction EPS DPP satellite workshop

The EPS DPP satellite workshop on High-Field Laser-Plasma Interaction (HFLPI), as a satellite meeting of the 46th European Physical Society Conference on Plasma Physics, is intended to be the first step to increase the visibility of the high field physics within the European physics community and create a special subject line in the section Beam and Plasma Inertial Fusion (BPIF) of the Division of Plasma Physics (DPP) of the EPS.

It inscribes itself in the context of the forthcoming major high-power laser facilities such as APOLLON in France, three ELI pillars in Europe and similar installations elsewhere in the world.

These new scientific infrastructures will open up completely new fields of research in the interaction of electromagnetic radiation with plasmas and require a corresponding European forum.



BUILDING 1 'Rettorato' - Hall
REGISTRATION
COFFEE BREAK & LUNCH
POSTER SESSION

BUILDING 3 'Gino Cassina'
ROOM S02
ORAL SESSIONS

POLITECNICO DI MILANO
Piazza Leonardo Da Vinci 32
20133 Milan, Italy

Wi-Fi / WIRED ACCESS TEMPORARY GUEST CREDENTIALS
Event: HFLPI2019 - 11/07/2019 - 13/07/2019
Login: e195597
Password: 22AD6HJE

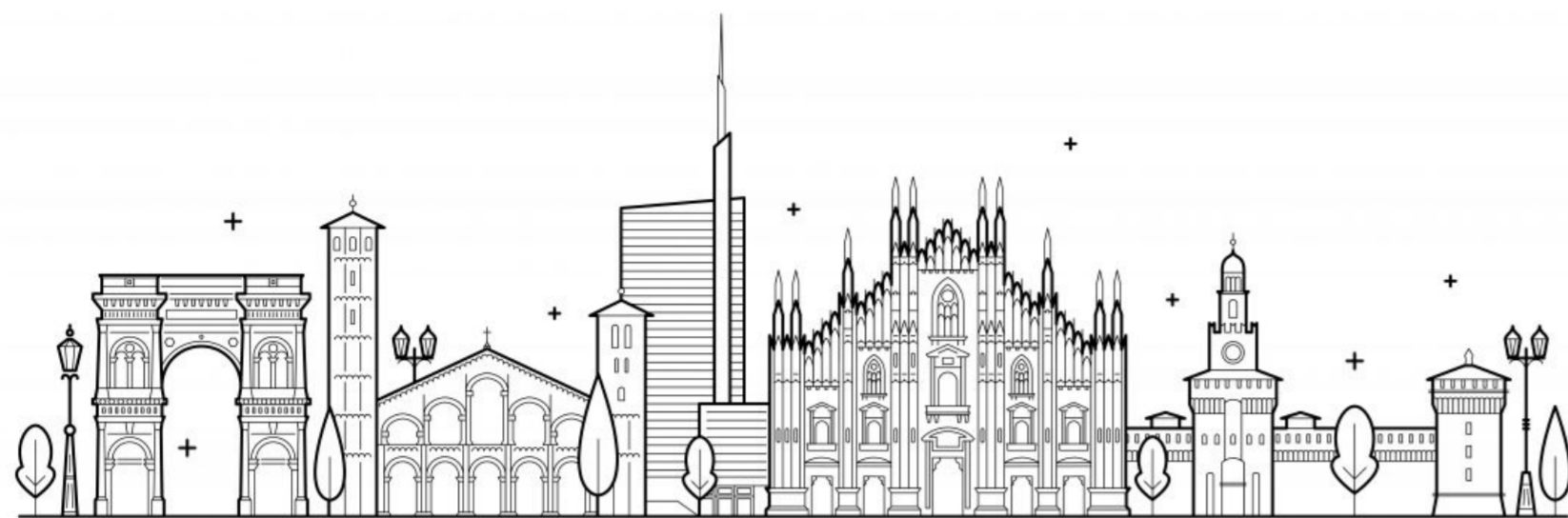
1. Connect to the "polimi" open wireless network or plug a cable into an active socket
 2. Open a browser window and navigate to any web page (not https)
 3. You will be redirected to the access page: select "Login as a guest" from the list of available authentication methods and enter the credentials above.
- These credentials are associated with your personal information: it is therefore in your best interest to keep them strictly confidential.
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<http://www.connectandgo.polimi.it/en>

EPS DPP satellite workshop on High-Field Laser-Plasma Interaction

July 13th, 2019

HFLPI 2019





PROGRAM Saturday July 13th 2019

8.30-9.30 REGISTRATION

9.30-10.00 WELCOME & OPENING

MICKAEL GRECH LULI, École Polytechnique, CNRS (France)

MARIJA VRANIC Instituto Superior Técnico (Portugal)

MATTEO PASSONI Politecnico di Milano (Italy)

10.00-11.00 UHI & EXTREME FACILITIES

LUCA VOLPE CLPU (Spain)

MICKAEL GRECH Apollon (France)

ONDREJ KLIMO ELI Beamlines (Czech Republic)

KAZUO TANAKA ELI Nuclear Physics (Romania) - *presented by O. Klimo*

HYUNG TAEC KIM CoReLS (South Korea)

ANNA GRASSI SLAC (USA)

11.00-11.30 COFFEE BREAK

11.30-13.10 STRONG-FIELD LASER-PLASMA INTERACTION

LIHUA CAO, IAPCM (China)
Improvement of energetic electrons and protons by laser-plasma interactions with an external magnetic field

MARTIN MATYS, ELI Beamlines (Czech Republic)
Double layer target with interface modulations for laser acceleration of collimated ion beams

ARIANNA FORMENTI, Politecnico di Milano (Italy)
Interaction between superintense laser fields and nanostructured plasmas

BERTRAND MARTINEZ, LULI, École Polytechnique (France)
Synchrotron emission from nanowire array targets irradiated by ultraintense laser pulses

ARKADY GONOSKOV, University of Gothenburg (Sweden)
Laser-particle collider for multi-GeV photon production

13.10-14.10 LUNCH

14.10-15.10 POSTER SESSION

- 1 OLIMPIA BUDRIGA, INFLPR (Romania)
One order of magnitude enhancement of laser intensity with a single re-entrant micro-cone target in the petawatt regime
- 2 BERTRAND MARTINEZ, LULI, École Polytechnique (France)
High energy radiation from nanostructured and thin targets driven by ultra intense lasers
- 3 ESMAT GHORBANPOUR, University of Guilan - UNIMIB (Iran)
Two-temperature one-dimensional ignition conditions for magnetized fusion cylindrical targets
- 4 JIAN FUH ONG, ELI Nuclear Physics (Romania)
Feasibility studies of all-optical and compact γ -ray blaster by petawatt-class laser pulse and its application
- 5 MONA NIROOZAD, Arak University (Iran)
Cylindrical fast electron beam in a plasma density gradient
- 6 ARIANNA FORMENTI, Politecnico di Milano (Italy)
Modeling nanostructured plasmas for superintense laser-plasma interaction experiments
- 7 MICKAEL GRECH, LULI, École Polytechnique, CNRS (France)
The open-source PIC code SMILEI: Physics modules & HPC capabilities
Teaching plasma physics with the open-source PIC code SMILEI
- 8 FABRIZIO DEL GAUDIO, Instituto Superior Técnico (Portugal)
Wakefield acceleration by incoherent radiation

15.10-15.30 COFFEE BREAK

15.30-17.10 STRONG-FIELD QUANTUM ELECTRODYNAMICS

IGOR KOSTYUKOV, Lobachevsky University (Russia)
Spatio-temporal dynamics of QED cascade in the laser field and cascade growth rate

FABRIZIO DEL GAUDIO, Instituto Superior Técnico (Portugal)
Disruption beamstrahlung and pair-production in beam-beam collisions

VITALY YAKIMENKO, SLAC (USA)
Prospect of Studying Nonperturbative QED with Beam-Beam Collisions

ARSENY MIRONOV, MEPHI (Russia)
Radiation corrections in non-perturbative regime of QED

TOBIAS PODSZUS, Max Planck Institute for Nuclear Physics (Germany)
High-energy behaviour of strong-field QED in an intense plane-wave

17.10 - 17.30 CLOSING