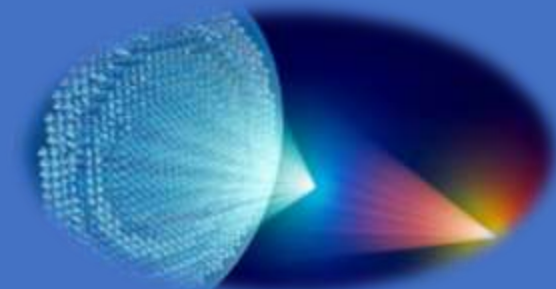




International Summer School



Physics and Application of Metasurfaces

28th – 1st September 2022, DII via Branze 38, Brescia / Montisola (BS), Italy

Full Program:

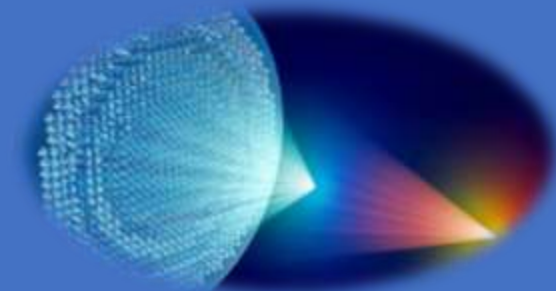
	Sunday 28 th August
15:00-19:00	<i>Arrival in Montisola and Registration</i>



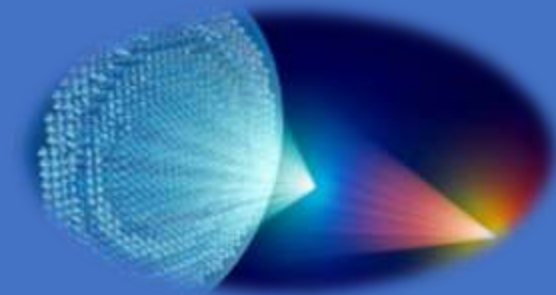
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Monday 29 th August – Montisola BS	
09:15	Opening
09:30	Kahsay Haftu Hiluf - <i>Design of a Millimeter-Wave Power Amplifier Power amplifier based on GaN technologies for Radiocommunication Applications</i>
09:50	Fernandez Perez Diego - <i>Measurement setup for cellular health monitor</i>
10:10	Zhu Fred - <i>Multiphysics development of Microwave Ovens (theoretical/experimental)</i>
10:30	Gheribes Lylia
10:50—11:15	Break
11:15	Belchovski Metodi - <i>Nonlinear interaction in plasmonic metasurfaces</i>
11:35	Invited Talk: Prof. Gino Sorbello – Università di Catania - Challenges and Advantages of Optical Dielectric Accelerators
12—14:00	Lunch
14:00	Dagnaw Chanyalew Zewdu - <i>Advanced EM modeling of phased array for high-end applications</i>
14:35	Pessoa Chaves Bruno - <i>Machine-learning photonics: Optimization of nonlinear fiber optical propagation for microscopy</i>
15:10—15:30	Coffee break
15:30	Gapparova Maftuna - <i>Communication with single photons and error correction</i>
16:05	Rodriguez Gajardo Antonio Enrique - <i>Amplitude modulation of Terahertz waves using the optical control of phase change materials</i>

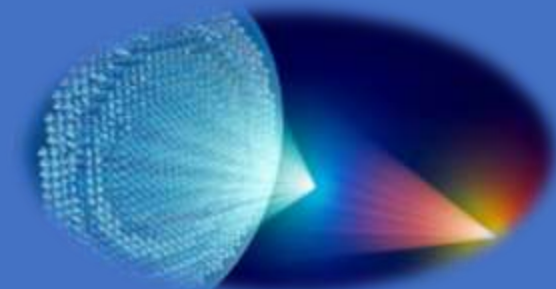


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	Tuesday 30 th August – Montisola BS
09:30	Serrano Flores Maria Eugenia - <i>Phase-Change chalcogenide metasurfaces for all-optical modulation</i>
10:05	Mogilnikov Andrei - <i>Striped patch antennas</i>
10:45	Méndez Canù Rodrigo Otoniei - <i>OPTical liMItting and SwiTching with nanoscale photonic structures (OPTIMIST)</i>
11:20	Usmani Atyia Fatima - <i>Design of Optical Dielectric Accelerators</i>
12:00	Invited Talk: Prof. Michele Celebrano – Politecnico di Milano – Enhancing and Steering the nonlinear emission in nanoantennas and metasurfaces
12:30	Invited Talk: Prof. Giuseppe Della Valle – Politecnico di Milano – Plasmonic Metasurfaces: from hot-electron physics to ultrafast all-optical light management
13:00—14:00	Lunch
14:00	Kalla Besma
14:20	Martinez Inaki
14:40	Invited Talk: Dr. Unai Arregui Leon – Politecnico di Milano – PhD academic experience
15:00	Invited Talk: Dr. Sravan Kumar Reddy – Nokia Corporation – Job industry experience
15:15—16:30	Conclusions



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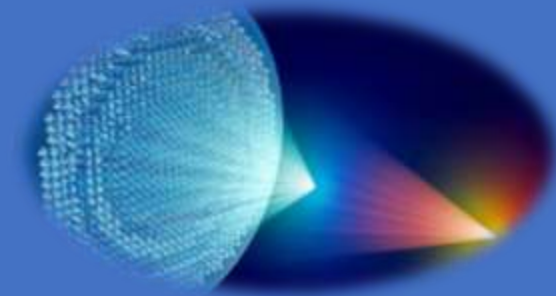
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	Wednesday 31 st August – DII University of Brescia
10:00-12:00	<i>Transfer to Brescia</i>
12:00-14:30	Free Lunch
14:30-17:00 <i>Department of Information Engineering, via Branze 38, BS</i>	<i>Session: 'Harmonic Generation in Dielectric Metasurface'</i> <i>Chair Dr. Marco Gandolfi</i> <i>Speakers:</i> <i>Dr. Andrea Tognazzi, University of Palermo</i> <i>Dr. Paolo Franceschini, CNR-INO Brescia</i> <i>Dr. Luca Carletti, University of Brescia</i>



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Physics and Application of Metasurfaces

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	Thursday 1 st September – Online
10:00-12:00	<i>Remote Session: 'Control of the spatial, polarization and frequency properties of photons generated by nonlinear processes in all-dielectric metasurfaces'</i> Chair Prof. Costantino De Angelis Speakers: Prof. Michele Celebrano, Politecnico di Milano Prof. Monica Bollani, L-NESS Laboratory - Como Prof. Lucio Andreani, University of Pavia
12:00-14:30	Free Lunch
14:30-15:30	<i>Closing Ceremony</i>