

EPP-2021 Program (March 10-12, 2021), updated 12.03.2021

Organizers: Fabrizio Carbone and Alexey Kuzmenko

March 10 (Wednesday)

<https://epp2021.ch/>

Chairman	Time (CET)	Speaker	Title
	14:50		Opening
Brett Barwick	15:00	Giovanni Vanacore	Tutorial and overview: When electrons meet light: a new route for dynamic visualization of plasmons and coherent control of matter waves
	15:40	Mathieu Kociak	Nanooptics with fast electron beams
	16:05		Break
Joshua Caldwell	16:15	Frank Koppens	Infrared and THz near-field imaging of twisted 2D materials and polaritonic nanocavities
	16:40	Fritz Keilmann	Infrared near-field nanospectroscopy of living cells
	17:05	Misha Fogler	Scanning Photocurrent Nanoscopy of Van der Waals Heterostructures
	17:30		Break
Alexandre Zimmers	17:40	Ido Kaminer	Free-electron quantum optics
	18:05	Peter Abbamonte	Coherent and incoherent collective excitations at the Fermi liquid--strange metal crossover in Sr ₂ RuO ₄
	18:30		Discussions
	19:15		Posters

March 11 (Thursday)

Chairman	Time (CET)	Speaker	Title
Erik van Heumen	15:00	Dimitri Basov	Tutorial and overview: Live from New York: Polaritons in van der Waals Materials
	15:40	Rainer Hillenbrand	Nanophotonics with phonon polaritons in 2D materials
	16:05		Break
Michele Ortolani	16:15	Matteo Mitrano	Dynamical control of effective interactions in quantum materials
	16:40	Regina Ciancio	Unveiling the role of oxygen vacancies in structural and functional properties of complex oxides thin films by atomic site HAADF-STEM and EELS
	17:05	Francesco Mauri	Measuring phonon dispersion suspended 2D nanostructures in the electron microscope
	17:30		Break
Christian Bernhard	17:40	Thomas Taubner	Phonon-enhanced infrared near-field spectroscopy enables probing of the buried 2DEG at the LAO/STO interface
	18:05	Yixi Zhou	Cryo-SNOM studies of polaritons at oxide interfaces
	18:30		Discussions
	19:15		Posters

March 12 (Friday)

Chairman	Time (CET)	Speaker	Title
Albert Polman	15:00	Javier Garcia de Abajo	Tutorial and overview: Optical Excitations with Free Electrons: Challenges and Opportunities
	15:40	Claus Ropers	Probing and tailoring electron-light interactions in ultrafast transmission electron microscopy
	16:05		Break
Mengkun Liu	16:15	Alex McLeod	Revealing nano-plasmonics in 2D materials and correlated oxides at variable temperatures
	16:40	Marco Polini	SNOM and plasmon-magnon interactions in 2D magnetic materials
	17:05	Tetiana Slipchenko	Near-field plasmonic phenomena in doped and charge-neutral graphene
	17:30		Break
Jose Lorenzana	17:40	Dirk van der Marel	Plasmons in strongly correlated matter
	18:05	Angel Rubio	Novel phenomena in two dimensional heterostructure from strongly interacting light-matter hybrids
	18:30		Closing
	18:40		Discussions
	19:25		Posters