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TRAINING DAY ON ADVANCED SPECTROSCOPIES

CNR-IPCF, MAY 10th 2024

Spectroscopic recognition of micro / nano- plastics and pollutants by Raman spectroscopy combined with Optical and Acoustic Trapping

PROGRAM

From	To	Activity	Title	Trainer(s)
09:15	09:40	Registration	Arrival of participants and registration	
09:40	10:00	Seminar	Introduction to the Training Day	P. G. Gucciardi
10:00	10:30	Seminar	Introduction to Raman and microRaman analysis: theory and experiment	A. Foti
10:30	11:00	Seminar	Optical Forces and Optical trapping: theoretical concepts and experimental setups	A. Magazzù
11:00	11:30	Pause	Coffee Break	
11:30	12:00	Seminar	Raman Spectroscopy of Optically Trapped particles in microfluidic circuits: experimental implementations	S. Bernatova
12:00	13:30	Lab 1	Demonstration of Optical Trapping and Optical Forces measurement. Data acquisition and treatment	A. Magazzù / MG Donato
		Lab 2	Demonstration of Raman Spectroscopy of Optically trapped particles, data acquisition and analysis	S. Bernatova / A. Foti
13:30	15:00	Pause	Aperitivo at IPCF and Lunch break	
15:00	15:40	Seminar	Acoustic potentials, Acoustic trapping and Raman spectroscopy of Acoustically levitated particles: theoretical concepts and experimental implementations	MG Donato
15:40	17:00	Lab 3	Demonstration of Acoustic Trapping, particle tracking and Acoustic forces measurements	MG Donato / A. Magazzù
		Lab 4	Demonstration of Raman spectroscopy of Acoustically trapped particles	A. Foti / S. Bernatova
17:00	17:30	Pause	Coffee Break	
17:30	18:00	Seminar	Wrap up and discussion on possible future collaborations and developments	P. G. Gucciardi

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