EUSpecLab Introductory Training School

19-30 June 2023 – UNICAM, San Benedetto del Tronto (Italy)

	Mon 19	Tue 20	Wed 21	Thu 22	Fri 23	Sat 24	Sun 25	Mon 26	Tue 27	Wed 28	Thu 29	Fri 30
09:00	arrivals and transfer to RINA	Transfer to San Benedetto del Tronto	Opening/Introduction to EUSpecLab (A. Trapananti/D. Sebilleau/M. Douvier) Density functional theory and its time-dependent generalization...	Spin-polarised DFT and what to do with it (H. Herper)	SCIENTA Industry Day (T. Hashimoto)	Social excursion to Ascoli Piceno or free time	free time	Introduction to x-ray absorption spectroscopy (A. Di Cicco)	A phenomenological introduction to photoelectron spectroscopy (G. Stefani)	(X-ray) Photolectron diffraction and related spectroscopies (D. Sebilleau)	Photoelectron spectroscopy with synchrotron radiation (M. Muntwiler)	Advanced analysis of EXAFS data using Reverse Monte Carlo and Neural Networks (F. Iesari)
10:30			coffee break	coffee break	coffee break			coffee break	coffee break	coffee break	coffee break	coffee break
11:00			Density functional theory and its time-dependent generalization (M. Marques)	From theory to real-life problems: Permanent Magnets and Where to find them (A. Vishina)	SCIENTA Industry Day (T. Hashimoto)			Theory of X-ray absorption spectroscopy: introduction to core-electron spectroscopies based on the interpretation of multiple scattering approach (K. Hatada)	...photolelectron spectroscopy (G.Stefani) Surface sensitivity of Electron Spectroscopy techniques: Interaction of Medium Energy Electrons with Surfaces (W. Werner)	Multipole interpretation of Resonant Elastic X-ray Scattering (REXS) and X-ray Absorption Spectroscopy (XAS) (S. Di Matteo)	Introduction to photo absorption and photoluminescence spectroscopies (I): phenomenology and theoretical approaches (A. Marini)	Understanding structural disorder II. Case studies (L. Pusztai)
12:30	light lunch		lunch	lunch	lunch			lunch	lunch	lunch	lunch	lunch
14:30	RINA Industry Day		Density functional theory and its time-dependent generalization (M. Marques)	An Introduction to cross sections (D. Sebilleau)	Atomic Simulation Recipes: An open Python framework for FAIR and scalable workflows (K. S. Thygesen)			Synchrotron radiation (A. Filipponi)	Surface sensitivity of Electron Spectroscopy techniques: Interaction of Medium Energy Electrons with Surfaces (W. Werner)	Magnetic dichroism in x-ray spectra from a theoretician's point of view: XMCD, XMLD, XNCD, and all that jazz (O. Sipr)	Introduction to photo absorption and photoluminescence spectroscopies (II): Light emission and real-time phenomena (A. Marini)	departures
16:00		Welcome	coffee break	coffee break	coffee break			coffee break	coffee break	coffee break	coffee break	
16:30			Vibrational properties from density functional theory (A. Castellano)	students' talks	Atomic Simulation Recipes: remote demonstration (A. H. Larsen) students' talks			Instrumentations at Synchrotrons: a virtual tour (G. Aquilanti)	Theory of ARPES (J. Minar)	Multiple scattering description of multicenter coherent emission in photoemission and photoabsorption (C. R. Natoli)	Understanding structural disorder (in liquids and amorphous and crystalline solids) on the basis of diffraction experiments (L. Pusztai)	
18:00									19:30 social dinner restaurant Acquapazza			