

	June 24 th	June 25 th	June 26 th	June 27 th	June 28 th
9.00-10.00	Introductory lecture: Basics of Vibrational Spectroscopy Boriana Mihailova (UHamburg)	Better do it right! Lutz Nasdala (U Wien)	Fluid inclusions Maria Luce Frezzotti (UMilanoBicocca)	Spectroscopy on Mars: what's up on the Red Planet? Olivier Beyssac (UPMC)	From lattice dynamics to thermodynamics: a first principles approach (hands-on tutorial and practicals). Donato Belmonte (UGenova)
10.00-11.00	Symmetry classification of the Raman signals and selection rules Mauro Prencipe (UTurin)	Application of Raman and photoluminescence spectroscopy in gemstone analysis - Lutz Nasdala (U Wien)	Fluid inclusions Maria Luce Frezzotti (UMilanoBicocca)	Raman spectroscopy for planetary exploration - Alessandro Pisello (UPerugia)	From lattice dynamics to Equations of State: a simplified approach. Ross J Angel (CNR-IGG)
11.00-11.30	Coffee break				
11.30-12.30	Effect of composition on Raman scattering - Boriana Mihailova (UHamburg)	Raman elastic geothermobarometry of quartz and zircon inclusions in garnet Mattia Gilio (UHamburg)	Raman spectroscopy and Machine Learning for thermal maturity assessment Natalia Amanda Vergara Sassarini (UPadua)	Raman Crystal Hunter software: application to mineral inclusions in diamonds Fabrizio Nestola (UPadua)	Roundtable and Closing remarks
12.30-13.30	Lunch break				
13.30-14.30	Effect of temperature and pressure on Raman scattering Boriana Mihailova (UHamburg)	Raman spectroscopy applied to host-inclusion systems: a probe for in situ mineral rheology at non-ambient conditions Nicola Campomenosi (UGenova)	Raman spectroscopy and mapping: from Earth and planetary sciences to tribology, material sciences, and biology Bruno Reynard (Laboratoire de Géologie de Lyon)	Elasticity of minerals in the deep interior of planets as determined by Brillouin scattering measurements Tiziana Boffa-Ballaran (UBayreuth)	
14.30-15.30	Raman spectroscopy by ab initio calculations - Mara Murri (UPavia)	Raman spectroscopy and melt inclusions in metamorphic rocks Silvio Ferrero (UCagliari)	Raman Spectroscopy of Carbonaceous Material: RSCM thermometry and more Olivier Beyssac (UPMC)	Practical session on mineral, mineral inclusions, carbonaceous material, fluid inclusions	
15.30-16.30	From vibrational spectroscopy to thermodynamics Donato Belmonte (UGenova)	Poster and talks by students	Poster and talks by students		
16:30-18:00	welcome aperitif				
19.00-22.00	School dinner				