



## Provisional program

6<sup>th</sup> Workshop "Materials Characterisation by the Combined Analysis"

October 19-23, 2015, Trento (Italy)



Monday	Tuesday	Wednesday	Thursday	Friday
<i>Rietveld analysis</i>	<i>Microstructure and nanostructured materials</i>	<i>Diffraction, Reflectivity and Fluorescence combined</i>	<i>Texture and deformations</i>	<i>Rietveld-PDF analysis by electron diffraction and EDS</i>
	9h <b>Microstructure analysis I: theory</b> (Matteo Leoni)	9h <b>Fluorescence: XRF and GIXRF analyses</b> (Christina Strelti)	9h <b>Texture analysis: from pole figures to ODF</b> (Daniel Chateigner)	9h <b>Transmission Electron Microscopy: combining electron diffraction and EDS</b> (Stefano Gialanella)
~10h30 / 11h : coffe break				
10:00h Welcome <b>Introduction: Beam-Matter interaction</b> (Giancarlo Pepponi) <b>Instrumentation and measurements</b> (Henry Pillière)	<b>Microstructure analysis II: Rietveld-PDF analyses</b> (Luca Lutterotti)	<b>Combining Diffraction, Reflectivity and Fluorescence analysis in thin films</b> (Giancarlo Pepponi)	<b>Texture and anisotropy: in situ analysis at high temperature and pressure</b> (Hans-Rudolf Wenk)	<b>Rietveld-PDF analysis on nanomaterials by SAED</b> (Philippe Boullay)
~12h30 / 14h : Lunch				
<b>Classical Rietveld Analysis</b> (Luca Lutterotti)	<b>Practical session: line broadening (size-strain and planar defects)</b> Hands on Maud	<b>Practical session: XRD and XRF combined analysis on bulk materials</b> Hands on Maud	<b>Practical session: Rietveld texture analysis</b> Hands on Maud	<b>Practical session: Ring pattern analysis from electron diffraction images</b> Hands on Maud
~15h30 / 16h : coffe break				
<b>Practical session: Rietveld analysis and Phase Quantification</b> Hands on Maud	<b>Practical session: nanomaterials and Rietveld-PDF analysis</b> Hands on Maud  <b>XRD-XRR-XRF laboratory (17:00 – DII/FBK labs)</b>	<b>Practical session: XRR and GIXRF combined analysis on thin films</b> Hands on Maud	<b>Practical session: Rietveld texture-stress analysis on the DAC</b> Hands on Maud	<b>Practical session: combining SAED and EDS</b> Hands on Maud
~18h End of the day				
Welcome Dinner			Social Dinner	