



International Hybrid Training School  
 Characterization Techniques for Epitaxial Materials  
 University of Aveiro, Portugal - 13<sup>th</sup> to 17<sup>th</sup> June 2023

	13 <sup>th</sup> June	14 <sup>th</sup> June	15 <sup>th</sup> June	16 <sup>th</sup> June	17 <sup>th</sup> June	
9h00		Diffraction techniques José António Paixão	Optical characterization Charles Comet	Assessing nanoscale (opto)electronic properties through advanced SPM Sascha Sadewasser	Piezoresponse force microscopy in epitaxial materials Vladimir Shvartsman	
9h30						
10h00		<b>refreshement &amp; poster session</b>	<b>refreshement &amp; poster session</b>	<b>refreshement &amp; poster session</b>	<b>refreshement</b>	
10h30						
11h00		X-ray Metrology of Epitaxial Group-III-Nitrides for Device Fabrication Lutz Kirste	Characterization of functional oxides thin films & heterostructures using Raman Joaquim Agostinho	Scanning tunneling microscopy and related spectroscopies in epitaxy materials Lucia Vitali	Practical analysis of combined AFM and microRaman Maxim Ivanov & Timur Nikitin	
11h30						
12h00		<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	
12h30						
13h00						
13h30		<b>Welcome</b>	Hands on case studies using diffraction techniques José António Paixão & Lutz Kirste	Characterization tools on epitaxial growth control Armando Lourenço & Ricardo Silva	Scanning probe microscopy of epitaxy of metal complex oxides Alexander Tselev	Advanced SPM Technical session II
14h00						
14h30		TEM for thin films and 2D Materials Paulo J Ferreira	<b>refreshement &amp; poster session</b>	<b>refreshement &amp; poster session</b>	<b>refreshement &amp; poster session</b>	<b>refreshement</b>
15h00						
15h30						
16h00	<b>refreshement &amp; poster session</b>	Visit to the laboratories	Visit to the laboratories	Visit to the laboratories + Advanced SPM Technical session I	Advanced SPM Technical session II	
16h30						
17h00	The impact of materials growth in device performance and scalability Susana Cardoso de	Visit to the laboratories	Visit to the laboratories	Visit to the laboratories + Advanced SPM Technical session I	Advanced SPM Technical session II	
17h30						
18h00	<b>2 minutes PITCH</b>	<b>2 minutes PITCH</b>				
18h30						