

JOINT TRAINING COURSE ON ION BEAM MICROSCOPY
Laboratori Nazionali Legnaro (I), 3-4, July 2014 **Updated 2-7-14**
PROGRAMME

July 3, 2014 - Aula M.B. Ceolin (LNL)		July 4, 2014 - Aula M.B. Ceolin (LNL)	
9.00 – 9.30	Opening: A. Simon (IAEA) V. Rigato (INFN-LNL)	9.00 – 9.45	P. Pelicon - Institute “Jožef Stefan”, Ljubljana (SLO) Focused beams: applications of the PIXE techniques to biological problems (bio-PIXE)
9.30 – 11.00	G. Grime - University of Surrey (UK) - MeV ion microbeams: a historical overview - The beam optics of nuclear microbeams: how to model and design probe-forming lenses for MeV ions	9.45 – 10.30	R. Cherubini - INFN LNL Legnaro (I) Collimated beams: single ion microbeam for radio-biology
11.00 – 11.30	Coffe Break	10.30 – 11.00	Coffee Break
11.30 – 12.15	F. Watt - National University of Singapore The use of MeV ion nanobeams for microscopy of whole biological cells	11.00 – 11.45	B. Jones - University of Surrey (UK) and INFN LABEC (I) Molecular Imaging using micro-MeV SIMS
12.15 – 13.00	M. Doebeli - ETH Zürich (CH) Formation of micro-beams by capillary collimation	11.45 – 12.30	J. Meijer - University of Leipzig (DE) Production of NV centers for new application
13.00 – 14.30	LUNCH	12.30 – 13.40	LUNCH
14.30 – 15.15	L. Giuntini - University of Firenze and INFN LABEC (I) Focused ion beams: ion microscopy from extracted beams	13.45-17.15 (16:00-16:30 Coffe Break)	VISIT to the INFN Legnaro Infrastructures (all) / PRACTICAL DEMONSTRATION (2 groups) - L. Silvestrin DISCUSSION (all)
15.15 - 16.00	L. Silvestrin - University of Padova (I) The Sirad IEEM: a survey tool for the characterization of radiation tolerance of Ics		
16.00 – 16.30	Coffee Break		
16.30 – 17.15	F. Watt - National University of Singapore Proton Beam Writing		
17.15 - 18.00	P. Olivero - University of Torino (I) Focused and collimated ion beams for the deep ion beam lithography of diamond	17.15 – 17.30	<i>closing remarks</i>