

Symposium G

MONDAY OCTOBER 9TH

 **8:15 A.M. – 10:00 A.M. ORAL SESSION G1**

Chairperson: A. F. Craievich

Room: FEESC

8:15 – 9:00 A.M. SYNCHROTRON BASED SPECTROSCOPIC STUDIES APPLIED TO MATERIAL SCIENCE AT LNLS (**G525 , Invited**). Naves de Brito, A (LNLS).

9:00 – 9:45 A.M. MICRO-SPECTROSCOPIES EXTENDED TO THE SOFT X-RAY DOMAIN (**G502, Invited**). Delphine Vantelon (SOLEIL), Pierre Lagarde (SOLEIL), Markus Janousch (PSI) and Anne-Marie Flank (SOLEIL)

9:45 – 10:00 A.M. STRUCTURAL PROPERTIES OF METALLIC AU NANOPARTICLES EMBEDDED IN ELECTROCHROMIC NIO MATRICES (**G541**). Esteban Avendaño (LNLS) and Fabio Furlan Ferreira (LNLS) ■



10:15 A.M. - 10:30 A.M. – COFFEE BREAK

 **10:30 A.M. – 12:30 P.M. – ORAL SESSION G2**

Chairperson: V. Mastelaro

Room: FEESC

10:30 – 11:15 A.M. HARD AND SOFT X-RAY ABSORPTION STUDIES OF STRUCTURE, ELECTRONICS AND MAGNETISM IN NANOSTRUCTURED SYSTEMS: FILMS, NANOPARTICLES AND ORDERED POROUS MATERIALS (**G504, Invited**). Félix G. Requejo (INIFTA-IFLP-FCE-UNLP)

11:15 – 11:45 A.M. FORMATION OF ZNO QUANTUM-SIZED NANOCRYSTALS AND ZN-HDS: EXAFS AND UV-VIS STUDIES (**G549**). Valerie Briois (SOLEIL), Miriam Sanae Tokumoto (UFSCar), Sandra Helena Pulcinelli (IQ/UNESP) and Celso Valentim Santilli (IQ/UNESP).

11:45 – 12:15 P.M. LOCAL STRUCTURE OF METAL-OXYGEN BONDS IN NANOCRYSTALLINE ZIRCONIA-CERIA SOLID SOLUTIONS SYNTHESIZED BY A GEL-COMBUSTION PROCESS (**G547**). Rogério J. Prado (DRM-ICT-UFMT), Márcia C. A. Fantini (IF-USP), Aldo F. Craievich (IF-USP), Maria Emília F. Rapp (CINSO-CITEFA), Noemi E. W. Reca (CINSO-CITEFA), Diego G. Lamas (CINSO-CITEFA), Rodolfo O. Fuentes (CINSO-CITEFA) and Ismael O. Fábregas (CINSO-CITEFA).

12:15 – 12:30 P.M. IN-SITU ANALYSIS OF TI-NB ALLOYS AGING THROUGH SYNCHROTRON RADIATION (**G539**). Rubens Caram, Peterson Ferrandini, Conrado Moreira Afonso (LME-LNLS) and Giorgia Taiacol Aleixo (Unicamp). ■



12:30 P.M. – 2:00 P.M – LUNCH



2:00 P.M. – 2:45 P.M – PLENARY LECTURE

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2:50 – 4:20 P.M. ORAL SESSION G3

Chairperson: M. A. Fantini

Room: FEESC

2:50 – 3:35 P.M. REAL TIME SAXS-WAXS EXPERIMENTS IN ORIENTED MACROMOLECULAR SYSTEMS AND TRIBLOCK COPOLYMER MATERIALS (**G540, Invited**). Iris L. Torriani (IFGW-UNICAMP and LNLS)

3:35 – 4:05 P.M. APPLICATIONS OF GRAZING INCIDENCE SAXS (GISAXS) AND ANOMALOUS SAXS (ASAXS) TO MATERIALS SCIENCE (**G534**). Guinther Kellermann (LNLS)

4:05 – 4:20 P.M. STRUCTURAL DEFECTS IN NBB2 USING HIGH-RESOLUTION X-RAY DIFFRACTION (**G565**). Geovani Rodrigues (UFF), Carlos Angelo Nunes (EEL-USP), Paulo Atsushi Suzuki (EEL-USP), Márcia Regina Baldissera (UFF) and Gilberto Carvalho Coelho (EEL-USP) ■



4:20 P.M. – 4:40 P.M. – COFFEE BREAK



4:20 P.M. – 5:45 P.M. – POSTER SESSION PG1

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5:50 P.M. – 6:35 P.M – PLENARY LECTURE

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TUESDAY OCTOBER 10TH



8:15 – 10:00 A.M. – ORAL SESSION G4

Chairperson: C. Giles

Room: FEESC

8:15 – 9:00 A.M. A FEW CONTRIBUTIONS IN SYNCHROTRON X-RAY ANALYSIS OF NANOSTRUCTURED SEMICONDUCTOR DEVICES AND AMORPHOUS THIN FILMS. (**G524, Invited**) Sérgio Luiz Morelhão (Instituto de Física - USP).

9:00 – 9:45 A.M. CHEMICAL AND MAGNETIC MAPPING OF INTERFACES BY RESONANT X-RAY SCATTERING (**G507, Invited**). Rogério Magalhães-Paniago (UFMG).

9:45 – 10:00 A.M. INVESTIGATION OF THE EPITAXIAL GROWTH OF ZINC OXIDE NANOWIRES ON SAPPHIRE BY GRAZING INCIDENT SYNCHROTRON X-RAY DIFFRACTION (**G514**). Sergio Oliveira (UFMG), D L Batista (Univ cambridge), S Dalal (Univ

Cambridge), Andre S Ferlauto (UFMG), Rogerio Magalhães-Paniago (UFMG), Leonardo C Campos (UFMG), W Milne (Univ. Cambridge), Luiz O Ladeira (UFMG) and Rodrigo G Lacerda (UFMG) ■

(IFSC-USP), Mirta Mir (IFSC-USP), Antonio Carlos Doriguetto (Efoa/Ceufe), Person Pereira Neves (IFSC-USP), Valmor Roberto Mastelaro (IFSC-USP), Jose Antonio Eiras (D.F. UFSCar) and Manoel Henrique Lente (D.F.-UFSCar)



10:15 A.M. - 10:30 A.M. – COFFEE BREAK



10:00 A.M. – 12:30 P.M. – ORAL SESSION G5

Chairpersons: C. Giles

Room: FEESC

10:30 – 11:15 A.M. PHASE CONTRAST RADIOGRAPHY FOR CHARACTERIZATION OF MATERIALS (**G523, Invited**). Cesar Cusatis (UFPR) and Marcelo G. Honnicke (UFPR).

11:15 – 11:45 A.M. X-RAY SCATTERING WITH POLARIZATION CONTROL AS A TOOL FOR THE STUDY OF MAGNETIC PROPERTIES OF MATERIALS (**G560**). Carlos Giles (UNICAMP).

11:45 – 12:00 A.M. MAGNETIC STRUCTURES IN NEW INTERMETALLIC COMPOUNDS (**G552**). Cris Adriano (Instituto de Fisica-IFGW), Eduardo Granado (Instituto de Fisica-IFGW), Pascoal Giglio Pagliuso (Instituto de Fisica-IFGW), Carlos Giles (Instituto de Fisica-IFGW) and Raimundo Lora Serrano (Instituto de Fisica-IFGW)

12:00 – 12:15 P.M. INTERFACIAL MAGNETISM OF THE $\text{Ni}_{81}\text{Fe}_{19}/\text{Ni}_{81}\text{Fe}_{19}$ TRILAYERS (**G545**). Urbano Miguel Tafur Tanta (CBPF), Valberto Pedruzzi Nascimento (CBPF), William Edgardo Alayo Rodriguez (CBPF), Yutao Xing (CBPF) and Elisa Baggio Saitovitch (CBPF).

12:15 – 12:30 P.M. NEW APPROACH TO AB-INITIO STRUCTURE DETERMINATION FROM X-RAY POWDER DIFFRACTION DATA (**G553**). Stefan Kycia (University of Guelph) and Ariel Gomez (University of Guelph). ■



12:30 P.M. – 2:00 P.M – LUNCH



2:00 P.M. – 2:45 P.M – PLENARY LECTURE

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2:50 A.M. – 4:20 P.M. – ORAL SESSION G6

Chairperson: C. V. Santilli

Room: FEESC

2:50 – 3:35 P.M. STRUCTURE AND MAGNETISM OF THIN FILMS BY SURFACE X-RAY DIFFRACTION (**G528, Invited**) Helio CN Tolentino (Ld-CNRS)

3:35 – 4:05 P.M. STRUCTURAL STUDIES OF FERRO-ELECTRIC $\text{Pb}_{1-x}\text{La}_x\text{TiO}_3$ CERAMIC COMPOUNDS (**G511**). Jacques Moscovici (Un. Paris XII), Alain Michalowicz (Un. Paris XII), Yvonne Primerano Mascarenhas

4:05 – 4:20 P.M.

THE X-RAY POWDER DIFFRACTION (D10B XPD) BEAMLINE OF LNLS (**G536**) Fabio Furlan Ferreira (LNLS) and Eduardo Granado (LNLS e IFGW-UNICAMP) ■



4:20 P.M. – 4:40 P.M. – COFFEE BREAK



4:20 P.M – 5:45 P.M – POSTER SESSION PG2

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5:50 P.M. – 7:20 P.M - ROUND-TABLE

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