

**WSWED4: Towards the Next
Generation of Photothermal
and Near-Field Infrared
Nanospectroscopy at the CFN
and NSLS-II**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Workshop Introduction

Wednesday, 19 May 2021 12:30 (5 minutes)

Presenter: WORKSHOP ORGANIZERS (Brookhaven National Laboratory)

Contribution ID: 2

Type: **not specified**

Pushing IR s-SNOM and nano-FTIR signals via strong tip-substrate coupling

Wednesday, 19 May 2021 12:35 (40 minutes)

Presenter: HILLENBRAND, Rainer (CIC nanoGUNE)

Contribution ID: 3

Type: **not specified**

Cryo-SNOM studies of nanostructured functional oxides

Wednesday, 19 May 2021 13:15 (25 minutes)

Presenter: KUZMENKO, Alexey (University of Geneva)

Contribution ID: 4

Type: **not specified**

Surface Cooper-pair plasma waves in a high-T_c superconductor by THz near-field microscopy

Wednesday, 19 May 2021 13:40 (25 minutes)

Presenter: GOZAR, Adrian (Yale University / Department of Physics)

Contribution ID: 5

Type: **not specified**

From nano-medicine to nano-optics of quantum materials: the multidisciplinary analytical power of synchrotron nano-IR

Wednesday, 19 May 2021 14:20 (40 minutes)

Presenter: FREITAS, Raul (Brazilian Center for Research in Energy and Materials (CNPEM) / Brazilian Synchrotron Light Laboratory (LNLS))

Contribution ID: 6

Type: **not specified**

Imaging Domain Walls by Near Field Infrared Spectroscopy

Wednesday, 19 May 2021 15:00 (25 minutes)

Presenter: MUSFELDT, Janice (University of Tennessee / Departments of Chemistry and Physics)

Contribution ID: 7

Type: **not specified**

Peak Force Photothermal and Scattering-type Near-field Microscopy with Infrared Light Sources

Wednesday, 19 May 2021 15:25 (25 minutes)

Presenter: XU, Xiaoji (Lehigh University / Department of Chemistry)

Contribution ID: 8

Type: **not specified**

Vibrational exciton and polaron nano-imaging: a molecular ruler to image structure, coupling, and disorder in functional molecular materials

Wednesday, 19 May 2021 16:05 (40 minutes)

Presenter: RASCHKE, Markus (University of Colorado / Department of Physics, Department of Chemistry, and JILA)

Contribution ID: 9

Type: **not specified**

O-PTIR + simultaneous Raman- New paradigms in Vibrational Micro/Nano spectroscopy! Applications from single bacteria to nanocomposite interfaces

Wednesday, 19 May 2021 16:45 (25 minutes)

Presenter: ANDERSON, James (Photothermal Spectroscopy Corp.)

Contribution ID: 10

Type: **not specified**

Novel applications of photothermal infrared spectroscopy coupled to optical and atomic force microscopy for analysis of atmospheric aerosols

Wednesday, 19 May 2021 17:10 (25 minutes)

Presenter: AULT, Andrew (University of Michigan / Department of Chemistry)

Contribution ID: 11

Type: **not specified**

Q & A with Audience / Current & Future Capabilities at NSLS-II & CFN

Wednesday, 19 May 2021 17:35 (25 minutes)

Presenter: WORKSHOP ORGANIZERS (Brookhaven National Laboratory)