



# Synchrotron and Free electron laser Radiation: generation and application (SFR-2020)

## Tuesday 14 July 2020

### THz radiation application: Plenary 3 - Zoom 860 5034 1820 (14:00-16:30)

**-Conveners: Boris Knyazev; Vitaly Kubarev**

| time  | [id] title   | presenter                  |
|-------|--|----------------------------|
| 14:00 | [63] Recent experiments in Terahertz Photonics, Plasmonics, and Spectroscopy at the Novosibirsk Free Electron Laser Facility | Prof. KNYAZEY, Boris       |
| 14:30 | [162] Multichannel THz telecommunication based on mode division multiplexing (MDM) approach                                  | Prof. PAVELYEV, Vladimir   |
| 15:00 | [85] Terahertz Photonics of Dense medium: from gas to liquid   | Prof. SHKURINOV, Alexander |
| 15:30 | [161] THz nonlinear electronic response in GaAs/InGaAs semiconductor nanowires   | SCHNEIDER, Harald          |
| 16:00 | [52] Construction of a biosensor sensitive to terahertz radiation based on the glutamine synthase gene promoter              | PELTEK, Sergey             |

### THz radiation application: Oral 2 - Zoom 860 5034 1820 (16:40-19:20)

**-Conveners: Boris Knyazev; Vitaly Kubarev**

| time  | [id] title  | presenter                |
|-------|---|--------------------------|
| 16:40 | [23] A Terahertz localized laser discharge as a source of bright VUV light  | Dr VODOPYANOV, Alexander |
| 17:00 | [25] EPR spectroscopy station at the Novosibirsk Free Electron Laser: application of high-power THz radiation in the field of molecular magnetism | Dr VEBER, Sergey         |
| 17:20 | [5] MODELING OF TERAHERTZ SURFACE PLASMON FOURIER SPECTROMETER  | Dr GERASIMOV, Vasily     |
| 17:40 | [54] Relaxation times of donor bound electrons in silicon and germanium   | ZHUKAVIN, Roman          |
| 18:00 | [57] Magnetic Field Effect on the Free Induction Decay of Hydroxyl Radical (OH) in the Terahertz Region   | CHESNOKOV, Evgeniy       |
| 18:20 | [122] Silicon and Diamond Diffractive Lenses with Continuous Profile for Focusing High-Power Terahertz Radiation                                  | KOMLENOK, Maxim          |
| 18:40 | [106] Enhancing resolution of terahertz surface plasmon resonance microscopy by ghost imaging using FEL radiation                                 | KHASANOV, Ildus          |
| 19:00 | [110] On the efficiency of backward collinear acousto-optic interaction between terahertz radiation and acoustic beam in hexane                   | Dr NIKITIN, Pavel        |