

# **Quantum and Nonlinear Optics**

**Thursday, 10 March 2022 - Thursday, 10 March 2022**

## **Scientific Programme**

**NSP FOTONIKA-LV section  
at the 80th Annual Scientific Conference of the University of Latvia  
March 10 (Thursday)**

**Quantum and Nonlinear Optics**

10.00 Opening speeches

10.15 – 12.00 Plenary lectures of invited keynote speakers:

1) 10.15 – 11.00

Prof. *Sune Svanberg*,

“Multidisciplinary Laser Spectroscopy”

2) 11.00 – 11.45

Dr.Phys, ERA Chair *Rashid Ganeev*,

“Nonlinear optics and strong laser-matter interactions:  
advances and perspectives”

12.00 - 14.00 Lunch

14.00 – 17.00 Oral presentations:

3) 14.00 – 14.20

*Uldis Berzins*,

“Participation in COST action MD-GAS”

4) 14.25 – 14. 45

*Stephan Malbrunot-Ettenauer, Uldis Berzins, Dag Hanstorp*,

“Isotope Shift “Measurements on Electron Affinity for Cl-“

5) 14.50 -15.10

*Uldis Berzins, Dag Hanstorp, Henrik Hartman*

“Laser probing of metastable Ba+ for lifetime measurements”

6) 15.15 – 15.35

*Janis Blahins, Armans Bziskjans*,

“Quadrupole Mass Selector rods assembly electronics circuitry solutions, development and RF measurements”

7) 15.40 - 16.00

*Vyacheslav Kim*

“Investigation of nonlinear optical processes in quantum dots and nanoparticles”

8) 16.05 - 16.25

*Aigars Apsitis and Viesturs Silamiķelis*

"Metal and semiconductor levitation investigations in induction furnaces"