

PROGRAMME

Monday, May 21

16:00 - Registration, Paper Submission, Refreshments

19:00 - Supper

Tuesday, May 22

7:30 - Breakfast

9:00 – 9:10 - *Opening*

Session 1

9:10- 9:55 **A. BUSSMANN-HOLDER**,
Dielectric perovskite oxides: always good for a surprise.

9:55 – 10:20 **N. PAVLENKO**,
Superconductivity and magnetism in heterostructures of cuprates and titanates: the role of interface reconstructions.

10:20-10:45 **D. NUZHNYI**, J. PETZELT, M. SAVINOV,
T. OSTAPCHUK, V. BOVTUN, M. KEMPA, J. HLINKA, V.
BUSCAGLIA, M. T. BUSCAGLIA, P. NANNI
*Broad-band up to infrared dielectric response of
Ba(Zr,Ti)O₃ ceramics: from incipient via relaxor and diffuse
to classical ferroelectric behavior*

10:45-11:15 Coffee

Session 2

11:15-12:00 **J.HLINKA**
*Studying ferroelectric and structural phase transitions with
Milada Glogarova, Jan Petzelt and Vaclav Janovec.*

12:00-12:25 **M. GAŁAZKA**, P. ZIELIŃSKI, E. JUSZYŃSKA,
P.M. ZIELIŃSKI, R. PEŁKA, P. SZKLARZ
*Description of isomorphous phase transitions in material
with various kinds of molecular disorder.*

13:00-15:00 Lunch

Session 3

15:00-15:45 **M. KOPECKÝ**, J. KUB, J. FÁBRY, J. HLINKA
Local atomic ordering recovered from anomalous x-ray scattering.

15:45-16:10 J. OLIVEIRA, J. AGOSTINHO MOREIRA,
A. ALMEIDA, V. H. RODRIGUE, M.M.R. COSTA,
P. B. TAVARES, P. BOUVIER, M. GUENNOU,
J. KREISEL
Structural and insulator-to-metal phase transition at 50 GPa in GdMnO₃

16:10-16:40 Coffee

Session 4

16:40-17:25 **M. GLOGAROVÁ**, V. NOVOTNÁ
Re-entrant paraelectric smectic a (SmA) phase in chiral liquid crystals.

17:25-17:50 **P. PERKOWSKI**, K. OGRODNIK, M. ŽUROWSKA,
W. PIECEK, R. DĄBROWSKI, Z. RASZEWSKI,
L. JAROSZEWICZ
Antiferroelectric SmC_A and ferroelectric SmC* phases in racemic mixture.*

17:50-18:15 **V. NOVOTNÁ**, J. SVOBODA, M. GLOGAROVÁ,
D. POČIECHA
Mesomorphic properties of bent-shaped liquid crystalline compounds.

19:00-20:00 Supper

20:00-21:30 **POSTER SESSION 1**
Posters from **P1 – P35**

Wednesday, May 23

7:30 - Breakfast

9:00-14:00 Free time

14:00-15:00 Lunch

Session 5

15:00-15:45 **J. PETZELT**, I. RYCHETSKÝ, D. NUZHNYI
Giant permittivity phenomena due to conduction and dynamic slowing-down near electrical percolation threshold in composites.

15:45-16:10 **I. RYCHETSKY**, A. KLIC
Effective properties of multi-component dielectrics studied by finite element method.

16:10-16:40 Coffee

Session 6

16:40-17:05 **E. BUIXADERAS**, P. ONDŘEJKOVIČ, I. GREGORA,
J. HLINKA, J. DEC
Phonons in ferroelectric $Sr_xBa_{1-x}Nb_2O_6$ single crystals.

17:05-17:30 Š.SVIRSKAS, **M. IVANOV**, Š. BAGDZEVIČIUS,
J. BANYS, M.DUNCE, M. ANTONOVA, E. BIRKS,
A. STERNBERG
Dynamics of phase transition in $0.4Na_{0.5}Bi_{0.5}TiO_3-(0.6-x)SrTiO_3-xPbTiO_3$

17:30-17:55 **S.MIELCAREK**, A.TRZASKOWSKA, B.GRACZYKOWSKI
Elastic properties of the loaded silicon surfaces.

19:00- CONFERENCE DINNER

Thursday, May 24

7:30 Breakfast

Session 7

- 9:00-9:45 **S. KAMBA**, C. KADLEC, V. GOIAN, F. KADLEC,
P. KUŽEL, M. GICH,
Exotic THz excitations in multiferroics.
- 9:45-10:10 **A. KANIA**, E. TALIK, S. MIGA, I. GRUSZKA
*Ferroelectric and magnetic phase transitions in multiferroic
 $PbFe_{1/2}Nb_{1/2}O_3$ and $PbFe_{1/2}Ta_{1/2}O_3$ single crystals.*
- 10:10-10:35 **B. ANDRZEJEWSKI**, A. MOLAK, B. HILCZER,
A. BUDZIAK, R. BUJAKIEWICZ-KOROŃSKA
Magnetic and dielectric properties of $BiFeO_3$ multiferroic.

10:35-11:05 Coffee

Session 8

- 11:05- 11:30 **V. GOIAN**, S. KAMBA, N. D. ORLOFF, C-H. LEE,
V. BOVTUN, M. KEMPA, D. NUZHNYI, D. G. SCHLOM
*THz and infrared dielectric response of strained
 $Sr_{n+1}Ti_nO_{3n+1}$ thin films with ruddlesden-popper structure.*
- 11:30-11:55 **T. OSTAPCHUK**, C. KADLEC, P. KUŽEL, J. HLINKA,
J. PETZELT, A. TKACH, P. VILARINHO
*New insights into high-frequency dielectric dispersion in
 $Ba_xSr_{1-x}TiO_3$.*
- 11:55-12:20 **V. ŽELEZNÝ**, A. SOUKIASSIAN, X.X. XI, D.G. SCHLOM
*Study of epitaxial ferroelectric
 $BaTiO_3/SrTiO_3$ superlattices by infrared spectroscopy.*
- 12:20-12:45 **I. JANKOWSKA-SUMARA**, K. SZOT,
A. MAJCHROWSKI, K. ROLEDER
*Resistive switching in $PbZrO_3$ single crystals with
transient ferroelectric phase.*

13:00-15:00 Lunch

Session 9

15:00-15:45 D. JANKOWSKI, **R. ŚWIETLIK**, M. FOURMIGUÉ,
E.W. REINHEIMER, O. JEANIN
*Charge localization in one-dimensional organic conductors
(DMtTTF)₂X (X= ClO₄, ReO₄) studied by IR and Raman
spectroscopy.*

15:45-16:10 **P. MARTON**, J. HLINKA
*Ab-initio study of e-mode dependence on mechanical
stressing in PbTiO₃.*

16:10-16:40 Coffee

Session 10

16:40-17:05 **F. KADLEC**, C. KADLEC, P. KUŽEL, J. PETZELT
*Ferroelectric phase transition in GeTe studied by time-
domain THz spectroscopy.*

17:05-17:30 **V. BOVTUN**, V. PASHKOV, M. KEMPA, S. GLINŠEK,
B. MALIČ, S. KAMBA, J. PETZELT
*Microwave dielectric properties of KTaO₃: incipient
ferroelectric behaviour in ceramics and induced
ferroelectricity in thin films.*

17:30-17:55 **I. GREGORA**, F. BORODAVKA, A. BARTASYTE,
J. HLINKA
*Local domain structure in LiTa_{0.43}Nb_{0.57}O₃ single crystals
by Raman spectroscopy.*

19:00-20:00 Dinner

20:00-21:30 POSTER SESSION 2
Posters from **P36 – P71**

Friday, May 25

7:30 Breakfast

Session 11

9:00-9:25 **V. STEPKOVA**, P. MARTON, J. HLINKA
Squeezing domain walls in low-temperature phases of BaTiO₃.

9:25-9:50 **J. POKORNÝ**, E. SIMON, M. SAVINOV, V. SKOROMETTS,
B. MALIC, S. KAMBA
*Broadband spectroscopy on lead-free Ba_{0.85}Ca_{0.15}Ti_{0.9}Zr_{0.1}O₃
ceramics with enhanced piezoelectricity.*

9:50-10:15 **B. STAŚKIEWICZ**, S. DACKO, J. BARAN, Z. CZAPLA
*Successive phase transitions in
tera(isopropylamine)decachlorotricadmate (ii)
[(CH₃)₂CHNH₃]₄Cd₃Cl₁₀ crystal.*

10:15 - Closing

12:00 Lunch