

ORAL PRESENTATIONS 1994 (* Invited Talk)

T. Blasberg

"Kohärente Raman Beats in Pr³⁺:YAlO₃ durch bichromatische Anregung"
Frühjahrstagung der DPG, Hamburg, D
14.-18.3.94

T. Blasberg

"Excitation of Coherent Raman Beats with a Bichromatic Laser Field"
CLEO/EQEC '94, Amsterdam, NL
28.8.-2.9.94

T. Blasberg and D. Suter

"Bichromatic Excitation of Coherent Raman Beats"
Herbsttagung der SPG, Aarau
6.10.94

Ch. Bosshard

"Phase -matched Second Harmonic Generation by Mode Conversion in $\chi^{(2)}$ -inverted Waveguide Structures"
ICONO'1, Val Thorens, F
9.-13.1.94

Ch. Bosshard

"Second-Harmonic Generation by Counterpropagating Beams in Organic Thin Films"
ICONO'1, Val Thorens, F
9.-13.1.94

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Ch. Bosshard

"Potential of Molecular Crystals for Nonlinear Optical Applications"
Organic, Metallo-Organic, and Polymeric Materials for Nonlinear Applications, Los Angeles, USA
25.-26.1.94

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Ch. Bosshard

"Räumliche Solitonen"
Laserseminar, Institut für Quantenelektronik, ETH, Zürich
16.5.94

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Ch. Bosshard

" $\chi^{(2)}$ -Materialien für die Nichtlineare Optik"
Photonik-Symposium, Meersburg am Bodensee, D
12.-14.10.94

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Ch. Bosshard

"Nichtlinear Optische Molekularkristalle: Gegenwart und Zukunft"
Institut für organische Chemie, Technische Universität Braunschweig, D
14.12.94

S. Brülisauer

"Two-Beam Coupling in Photorefractive Ion-implanted Fe-doped KNbO₃ Planar Waveguides at 830 nm"
CLEO/Europe-EQEC '94, Amsterdam, NL
28.8.-2.9.94

S. Brülisauer, D. Fluck and P. Günter

"H⁺-ion Implanted KNbO₃ Waveguides for Photorefractive Applications"
Herbsttagung der SPG, Aarau
6.10.94

* **R. Cudney**

"Photorefractive Grating Fixing and Enhancement in Multi-domain Ferroelectric Crystals"
CLEO/Europe-EQEC '94, Amsterdam, NL
28.8.-2.9.94

* **T. Dietrich**

"Molecular Beam Epitaxy of Organic Nonlinear-optic Materials"
Optique Convention, Lausanne
27.6.94

M. Döbler, Ch. Weder, P. Neuenschwander, U. Suter, Ph. Prêtre, Ph. Kaatz and P. Günter

"New Polyamides with Large and Stable Second-Order Nonlinear Optical Properties"
Second European Conference on Molecular Electronics (ECME 94), Kloster Banz bei Bamberg, D
4.-9.9.94

M. Döbler, Ch. Weder, Ph. Prêtre, Ph. Kaatz, P. Neuenschwander, P. Günter and U. Suter

"Second-Order Nonlinear Optical Properties and Relaxation Characteristics of Poled Polyamides with Chromophoric Main Chain"
EPF 94, Basel
...94

* **M. Duelli**

"Photorefraktive Kristalle und ihre Anwendung in einem optischen Assoziativspeicher"
Institutsseminar Gruppe Prof. Zeilinger, Universität Innsbruck, A
6.5.94

L. Eng

"Organic Interface Inspection by Atomic Force Microscopy"
NATO-Advanced Study Institute, "Forces in SPM", Schluchsee, D
7.-18.3.94

L. Eng

"Force Microscopy on Non-linear Optical Materials, LB Films and Ferroelectrics"
Topometrix Workshop, Santa Clara, California, USA
18.7.94

L. Eng

"Scanning Force Microscopy on LB Films and Ferroelectric Crystals"
Herbsttagung der SPG, Aarau
6.10.94

D. Fluck

"High Photorefractive Sensivity in Ion-implanted KNbO₃ Waveguide"
CLEO '94, Anaheim, California, USA
8.-13.5.94

D. Fluck

"Blue Light Generation by Frequency Doubling of Laser Diode Radiation in KNbO₃ Waveguide"
CLEO Europe/EQEC '94, Amsterdam, NL
28.8.-2.9.94

F. Gitmans

"Growth of LiTaO₃ by MBE"
4th European Vacuum Conference, Uppsala, S
12.-17.6.94

F. Gitmans and Z. Sitar

"Development of KTa_{1-x}Nb_xO₃ and LiTaO₃ Thind Films for High-end Pyroelectric Applications"
LESIT Tagung, Bern
10.11.94

St. Grafström

"Laser Spectroscopy of Atomic Multipoles Near Dielectric Interfaces"
CLEO Europe/EQEC '94, Amsterdam, NL
28.8.-2.9.94

St. Grafström

"Laser-assisted Scanning Tunneling Microscopy Studies of Ordered Molecular Layers"
Second European Conference on Molecular Electronics (ECME 94), Kloster Banz bei Bamberg, D
4.-9.9.94

St. Grafström

"Laser Spectroscopy of Atoms near a Dielectric Interface"
Herbsttagung der SPG, Aarau
6.10.94

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P. Günter

"Molecular Crystals and Thin Films for Electro-optics and Photonics"
ICONO'1, Val Thorens, F
9.-13.1.94

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P. Günter

"Organische Kristalle und Polymere für die nichtlineare Optik"
Physikalische Gesellschaft Zürich
28.4.94

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P. Günter

"Polyimide Side-chain Polymers for Nonlinear Optics"
IKETANI Conference, Kona, Hawaii, USA
17.-19.5.94

- * **P. Günter**
 "Nichtlineare Optik"
 Physikalisches Seminar für Mittelschullehrer, Institut für Angewandte Physik, ETH Zürich
 16.6.94

- * **P. Günter, R. Cudney and G. Montemezzani**
 "Optical Storage Using Ferroelectric Domain Switching and Thermal Fixing"
 The Ninth International Symposium on the Applications of Ferroelectrics (ISAF '94),
 University Park, Pennsylvania, USA
 7.-10.8.94

- * **P. Günter**
 "Polyimide Side Chain Polymers for Electro-optical Applications"
 Polymeric Thin Films for Photonic Applications, Washington, DC, USA
 21.-24.8.94

- * **P. Günter**
 "Organic and Inorganic Nonlinear Materials"
 Summer School on "Nonlinear Optical Materials", Miraflores de la Sierra, Madrid, E
 8.9.94

- * **P. Günter**
 "Guided-wave Frequency Conversion in Nonlinear Optical Materials"
 Summer School on "Nonlinear Optical Materials", Miraflores de la Sierra, Madrid, E
 9.9.94

- * **P. Günter**
 "Organic Materials for Guided-Wave Optical Frequency Doubling"
 Congrès de la Société Française de Chimie, Lyon, F
 26.-30.9.94

- * **P. Günter**
 "Fixing of Photorefractive Gratings in BaTiO₃"
 FROC '94, "Japan-US Workshop on Functional Fronts in Advanced Ceramics", Tsukuba,
 Japan
 6.-8.12.94

- Ph. Kaatz**
 "Polyimide Side Chain Polymers for Nonlinear Optical Applications"
 ICONO'1, Val Thorens, F
 9.-13.1.94

- * **R. Kind**
 "Tiefemperatur-Dynamik der Estermethylen-Gruppe in Teildeuteriertem PMMA: Eine
 Deuteronen NMR-Untersuchung"
 Seminarvortrag am MPI für Polymerforschung, Mainz, D
 24.1.94

- * **R. Kind**
 "Phase Separation and Relaxor-Effects in D-RADP"
 Mikrosymposium Wien-Ljubljana, Institut für Experimentalphysik, Universität Wien, Wien,
 A
 4.-6.5.94

* **R. Kind** and St. Pfändler
"On the Heterogeneity of T_1 in the Polymer Glass PMMA at low Temperatures"
27th Congress AMPERE on Magnetic Resonance and Related Phenomena, Kazan, Russia
22.-27.8.94

* **R. Kind**
"Finite Size Effects in D-RADP"
Institut für Experimentalphysik, Universität Wien, Wien, A
16.9.94

* **R. Kind**
"Glass Transitions: State of the Art in Theory and Experiment"
Institut für Experimentalphysik, Universität Wien, Wien, A
19.9.94

* **R. Kind**
"Heterogeneous NMR Relaxation in PMMA at Low Temperatures"
Institute Jozef Stefan, Ljubljana, SLO
9.12.94

G. Knöpfle

"Linear Optical and Nonlinear Optical Properties of 4'-Dimethylamino-N-methyl-4-stilbazolium tosylate (DAST) Crystals"
ICONO'1, Val Thorens, F
9.-13.1.94

Th. König and R. Kind

" ^{87}Rb NMR Investigation of the Phase Segregation in the Solid Solution
 $\text{Rb}_{0.75}(\text{ND}_4)_{0.25}\text{D}_2\text{PO}_4$ "
27th Congress AMPERE on Magnetic Resonance and Related Phenomena, Kazan, Russia
22.-27.8.94

T. Marty

"Effizienter Master Slave Betrieb von stabilisierten Halbleiterlasern"
Frühjahrstagung SPG,
18.3.94

* **C. Medrano**
"Photorefractive Materials, Phase Conjugation and Near Infrared Response"
Physics Institute, Universidad Nacional Autonoma de Mexico (UNAM), Mexico
1.7.94

C. Medrano

"Fidelity on Double Phase Conjugate Mirrors with Fe Doped KNbO_3 "
CLEO/Europe-EQEC '94, Amsterdam, NL
28.8.-2.9.94

St. Pfändler and R. Kind

"On the Heterogeneity of T_1 in the Polymer Glass PMMA at Low Temperatures"
27th Congress AMPERE on Magnetic Resonance and Related Phenomena, Kazan, Russia
22.-27.8.94

T. Pliska

"Low-temperature Annealing of Ion-implanted KNbO₃ Waveguides for Second Harmonic Generation"

CLEO/Europe-EQEC '94, Amsterdam, NL

28.8.-2.9.94

T. Pliska, F. Meyer, D. Fluck and P. Günter

"Birefringence Homogeneity of KNbO₃ Bulk Crystals and Planar Waveguides Measured by Noncollinear Second Harmonic Generation"

Herbsttagung der SPG, Aarau

6.10.94

Ph. Prêtre

"Polyimide Side Chain Polymers for Nonlinear Optical Applications"

ICONO'1, Val Thorens, F

9.-13.1.94

R. Schlessner

"Photorefractive Effect in Undoped 4'-nitrobenzylidene-3-acetamino-4-methoxyaniline (MNBA) Crystals"

ICONO'1, Val Thorens, F

9.-13.1.94

* **R. Schlessner**

"Molecular Beam Epitaxy of Organic Nonlinear-optic Materials"

Optique Convention, Lausanne

27.6.94

R. Schlessner

"A Comparative Study on the Clamped Linear Electro-optic Effect in Organic and Inorganic Crystals"

CLEO/Europe-EQEC, Amsterdam, NL

28.8.-2.9.94

Z. Sitar

"Liquid Phase Epitaxy of KTa_{1-x}Nb_xO₃"

NATO Advanced Research Workshop, Science & Technology of Electroceramic Thin Films, Maratea, I

20.-24.6.94

* **Z. Sitar**

"Molecular Beam Epitaxy of Organic Nonlinear Materials"

Workshop on Organic Crystalline Nanostructures (Growth, Characterisation, and new Phenomena), Pavia, I

12.-13.9.94

* **Z. Sitar**

"Molecular Beam Epitaxy of Ferroelectric Materials"

SD '94 Symposium, Rogla, SLO

28.-30.9.94

- * **Z. Sitar**
 "Development of Epitaxial $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ Thin Films for High-end Pyroelectric Applications"
 Colloquium at the North Carolina State University, Raleigh, NC, USA
 4.11.94

- * **Z. Sitar**
 "Development of Pyroelectric Detectors Based on $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ Thin Films"
 3rd LESIT Convention, Bern
 10.11.94

- Z. Sitar**
 "Liquid Phase Epitaxy of $\text{Na}_{1-y}\text{K}_y\text{Ta}_{1-x}\text{Nb}_x\text{O}_3$ for Pyroelectric Applications"
 Materials Research Society 1994 Fall Meeting, Boston, Massachusetts, USA; Symposium on
 Ferroelectric Thin Films IV
 27.11.-2.12.94

- Z. Sitar**
 "Growth of Tantalum Oxide and Lithium Tantalate Thin Films by Molecular Beam Epitaxy"
 Materials Research Society 1994 Fall Meeting, Boston, Massachusetts, USA; Symposium on
 Ferroelectric Thin Films IV
 27.11.-2.12.94

- D. Suter**
 "Optisch verstärkte magnetische Resonanz"
 Universität Dortmund, D
 31.1.94

- D. Suter**
 "Eine optische Implementation der "Quanten-Zeitmaschine"
 58. Physikertagung, Hamburg, D
 14.-18.3.94

- D. Suter** und T. Blasberg
 "Bestimmung des Vorzeichens der Quadrupolwechselwirkung mit rf-optischer
 Doppelresonanz"
 Frühjahrstagung des AK Festkörperphysik bei der DPG, Münster, D
 21.-25.3.94

- D. Suter**
 "Eine optische Implementation der Quanten-Zeitmaschine"
 Quantenoptik-Seminar, Konstanz, D
 7.7.94

- D. Suter**
 "Orientation of Atomic Multipole Moments"
 International Conference on Atomic Physics, Boulder, Colorado, USA
 1.-6.8.94

- * **D. Suter**
 "Optically Enhanced Magnetic Resonance"
 27th Congress AMPERE on Magnetic Resonance and Related Phenomena, Kazan, Russia
 22.-27.8.94

Ch. Weder, Ph. Prêtre, Ph. Kaatz, P. Neuenschwander, P. Günter and U. Suter
"A New Approach to the Design of Polymers with Large and Stable Nonlinear Optical Properties"
MRS 1994 Fall Meeting, Symposium Za: Optical Waveguide Materials,

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* **M. Zgonik**
"Growth and Characterization of Photorefractive Materials for Extended Spectral Response"
National Research Laboratory of Metrology, Tsukuba, Japan
14.3.94

* **M. Zgonik**
"Optical Processing with Photorefractive KNbO₃"
Seminar at Dept. of Applied Chemistry and Physics, University of Electrocommunications,
Chofu-Tokyo, Japan
22.3.94

M. Zgonik
"Recording and Fixing Holograms in Multi-domain BaTiO₃"
CLEO 94, Anaheim, California, USA
8.-13.5.94

M. Zgonik
"Electro-optic and Dielectric Properties of Photorefractive BaTiO₃ Crystal"
CLEO 94, Anaheim, California, USA
8.-13.5.94

M. Zgonik
"Dielectric, Elastic, Electro-optic Properties of BaTiO₃ Crystal"
European Materials Research Society Spring Meeting, Strasbourg, F
23.-26.5.94

M. Zgonik
"Visible and Near Infrared Photorefractive Effect in Cu and Ni Doped KNbO₃"
European Materials Research Society Spring Meeting, Strasbourg, F
23.-26.5.94

M. Zgonik
"Photorefractively Produced Ferroelectric Domain Patterns"
Satellite Meeting on Oxide Crystals in the frame of the European Network, Lyon, F
3./4.7.94

M. Zgonik
"Material Constants Determination in BaTiO₃"
Satellite Meeting on Oxide Crystals in the frame of the European Network, Lyon, F
3./4.7.94

M. Zgonik
"Electro-optic, Dielectric, and Elasto-optic Properties of Photorefractive BaTiO₃"
CLEO/Europe-EQEC '94, Amsterdam, NL
28.8.-2.9.94