



## ДЕКЛАРАЦИЯ

Долуподписаният член-кореспондент проф. дфн Александър Драйшу от катедра Квантова електроника на Физически факултет декларира в лично качество и като Ръководител на катедра Квантова електроника, че е консултирал следните докторанти (аспиранти), успешно защитили дисертациите си за образователната и научна степен "доктор":

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Ръководител на катедра Квантова електроника

/ проф. дфн Александър Драйшу /

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# Mehrphotonen-Ionisationsprozesse mit intensiven Laserpulsen

Michael G. Schätzel

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Dissertation  
an der Fakultät für Physik  
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aus Mettmann

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VRIJE UNIVERSITEIT

**STIMULATED BRILLOUIN SCATTERING  
PULSE COMPRESSION AND  
HARMONIC GENERATION: APPLICATIONS  
TO PRECISION XUV LASER SPECTROSCOPY**

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor aan  
de Vrije Universiteit Amsterdam,  
op gezag van de rector magnificus  
prof.dr. T. Sminia,  
in het openbaar te verdedigen  
ten overstaan van de promotiecommissie  
van de faculteit der Exacte Wetenschappen /  
Natuurkunde en Sterrenkunde  
op donderdag 7 juni 2001 om 13.45 uur  
in het hoofdgebouw van de universiteit,  
De Boelelaan 1105

door

**Iavor Tzvetanov Veltchev**

geboren te Rousse, Bulgarije

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# Extreme Nonlinear Optics with Spatially Controlled Light Fields



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## Conference contributions

- S. Eyring, C. Kern, N. Franke, S. Jung, C. Spielmann, R. Spitzenpfeil, C. Ott, J. Lohbreier, J. Henneberger, D. Walter, M. Weger, C. Winterfeldt, and T. Pfeifer, “Enhancing the brilliance of high-harmonic radiation”, poster at 441. WE-Heraeus-Seminar on Ultrafast X-ray methods for studying transient electronic structure and nuclear dynamics, Bad Honnef/Germany (2009)
- C. Kern, M. Zürich, S. Eyring, and C. Spielmann, “Limitations of ultrafast nonlinear nano-optics”, poster at International Summer School in Ultrafast Nonlinear Optics SUSSP 66, Edinburgh/Scotland (2010)
- C. Kern, M. Zürich, and C. Spielmann, “Limitations of extreme nonlinear ultrafast nano-photonics”, poster at 4<sup>th</sup> European Conference on Applications of Femtosecond Lasers in Materials Science & Nano and Photonics, Mauterndorf/Austria (2011)
- C. Kern, M. Zürich, B. Kley, T. Pertsch, and C. Spielmann, “Considerations and Requirements of Metallic Nanostructures for Plasmon-Enhanced High-Harmonic Generation”, poster at Ultrafast Optics UFOIX, Davos/Switzerland (2013)
- C. Kern, M. Zürich, P. Hansinger, A. Dreischuh, and C. Spielmann, “Extreme Non-linear Optical Processes with Beams Carrying Orbital Angular Momentum”, oral presentation at European Conference on Lasers and Electro-Optics and the International Quantum Electronics Conference (CLEO/Europe-IQEC) München/Germany (2013)

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