



Österreichische
Physikalische
Gesellschaft



Annual Meeting 2013

AWARDS 2013

- Boltzmann Award (ÖPG)
- **ABB Award** (SPS)
- Victor Hess Award (ÖPG)
- **IBM Award** (SPS)
- Anton Paar Award (ÖPG)
- **Oerlikon Award** (SPS)
- Univ. Student Awards (ÖPG)
- **Roman Ulrich Sexl Award** (ÖPG)
- Industriepreis (ÖPG)
- Student Awards (ÖPG)

image credit: Herla Humaus





Österreichische Physikalische Gesellschaft (ÖPG)

Austrian Physical Society



Ludwig Boltzmann-Preis für Theoretische Physik

The 2013 Ludwig Boltzmann Prize of the Austrian Physical Society
has been awarded to Dr. Claudiu Genes (University of Innsbruck)

for his ground breaking work in the field of cavity-optomechanics, especially for his investigation of the coupling between light fields and nanomechanical motion and the creation of entanglement in optomechanical systems.





Ludwig Boltzmann-Preis für Theoretische Physik

CV of Dr. Claudiu Genes:

- 1996-2000, B.S. in physics, University of Bucharest, Romania
- 1999, Erasmus student, University of Hannover, Hannover, Germany
- 2001-2006, Ph. D. in physics, University of Michigan, Ann Arbor. USA
- 2006-2008, junior postdoctoral researcher with Profs. David Vitali and Paolo Tombesi, Quantum Optics and Information Group, University of Camerino, Italy
- 2008-2012, postdoctoral researcher at University of Innsbruck, Austria, with Profs. Peter Zoller and Helmut Ritsch, research visits at the University of Vienna and the University of Strasbourg
- 2013 - , independent senior researcher at the University of Innsbruck, Austria



Ludwig Boltzmann-Preis für Theoretische Physik

Hear more about Dr. Claudiu Genes' prize-winning research
in his plenary lecture on Thursday, HS 1, at 11:30 :

Single and Multielement Optomechanical Platforms

Claudiu Genes

Institute for Theoretical Physics, University of Innsbruck,
Technikerstrasse 25, AT-6020 Innsbruck

SPS Award for General Physics

The SPS Award 2013 for General Physics,
donated by ABB Schweiz AG,
is granted to



Titus Neupert

Talk in Plenary Session III, Fr., 06.09. HS 1 11:30 – 12:00

Titus Neupert: *Fractional quantum Hall states at zero magnetic field*



Österreichische Physikalische Gesellschaft Austrian Physical Society

Fachausschuss für Kern- und Teilchenphysik Nuclear and particle physics section



Viktor Hess-Preis

The 2013 Viktor Hess Prize of the Nuclear and Particle Physics Section of the Austrian Physical Society

has been awarded to **Dr. Claudia Lederer** (University of Frankfurt)
for her thesis entitled

*Neutron Capture Measurements on ^{62}Ni , ^{63}Ni and ^{197}Au and their Relevance for
Stellar Nucleosynthesis*

Completed 2012 at University of Vienna, Arbeitsgruppe Isotopenforschung





Viktor-Hess prize 2013

Hear more about Dr. Claudia Lederer's prize-winning research
in her lecture on Wednesday, HS 6, at 16:00
in the session on Nuclear and Particle Physics :

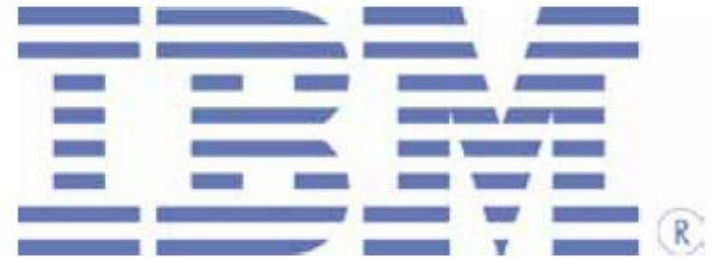
Neutron Capture Measurements on ^{62}Ni , ^{63}Ni and ^{197}Au and their Relevance for Stellar Nucleosynthesis

Claudia Lederer
*Goethe University Frankfurt
Institute for Applied Physics*



SPS Award for Condensed Matter Physics

The SPS Award 2013 for
Condensed Matter Physics,
donated by the
IBM Research Laboratory Rüschlikon,
is granted to



Jelena Klinovaja

Talk in VI Condensed Matter Computational and Theory,
Fr., 06.09. HS 5 14:15 – 14:45
Jelena Klinovaja: *Exotic Bound States in Low Dimensions*



Anton Paar

Wissenschaftspreis für Physik

For an outstanding doctoral dissertation in the field of solid state physics.

Sponsor: Santner Privatstiftung

http://www.anton-paar.com/Santner-Privatstiftung/32_Austria_de

Educational programs

Drug rehabilitation

Anton Paar

<http://www.anton-paar.com>

Anton Paar GmbH produces high-end measuring and laboratory instruments for industry and research. It is the world leader in the measurement of density, concentration and CO₂ and in the field of rheometry. Anton Paar GmbH is owned by the charitable Santner Foundation.



Anton Paar

Wissenschaftspreis für Physik

Dr. Heiko Groiss

Ph.D JKU Linz

Structural Investigation of Novel Semiconductor Systems by Transmission
Electron Microscopy
Thursday 16:00 H5

Presently: Schrödinger fellow at Karlsruhe Institute of Technology

SPS Award for Applied Physics

The SPS Award 2013 for Applied General
Physics,
donated by OC Oerlicon,
is granted to



oerlikon

Iris Crassee

Talk in Session V. Semiconductors, Th., 05.09. HS 5 18:15 – 18:30
Iris Crassee (given by Alexey Kuzmenko): *Magneto-optical spectroscopy
of epitaxial graphene*



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Student Award



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The Student Award 2013 in **Theoretical Physics** is granted to

Max Riegler

for his work on

Asymptotic Symmetry Algebras in Non-Anti-de-Sitter Higher-Spin Gauge Theories

This work was performed at the Institute for Theoretical Physics at TU Wien under supervision of D. Grumiller

image credit: Herfa Humaus





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Student Award



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The Student Award 2013 in **Experimental Physics** is granted
to

Richard Wollhofen

for his work on

STED-Lithography at the 55 nm Node

This work was performed at the Institute for Applied Physics
at JKU Linz under supervision of T. Klar

image credit: Herla Humaus





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Roman Ulrich Sexl Preis

Dr. Michael STIFTER

HTBLuVA Wiener Neustadt

Mag. Heimo TENTSCHERT

BG Rein

Preisträgervorträge: Mi., 04.09., K269D, 13:15

image credit: Herfa Humaus





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swiss physical society



ÖSTERREICHISCHE GESELLSCHAFT FÜR ASTRONOMIE UND ASTROPHYSIK



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Industriepreis

Florian HECHENBERGER

BORG Karajangasse Wien

„Das Plusenergiehaus“

Betr: Mag. Ch. Balauschik

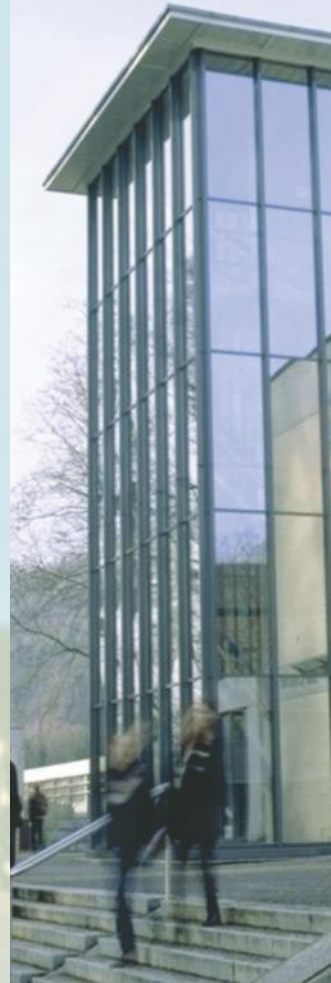
HANS HÖLLWART

FORSCHUNGSZENTRUM FÜR INTEGRALES



BAUWESEN AG

image credit: Herfa Humaus





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3. Preis



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Stefan PURKHART

BRG Hamerlingstraße Linz

**Stringtheorie
Grundgedanken und ihr Einfluss auf
Teilchenphysik und Kosmologie**

Betr: Mag. E. Stütz

image credit: Herla Humaus



Preisträgervortrag: K269D, 16:00





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ÖSTERREICHISCHE GESELLSCHAFT FÜR ASTRONOMIE UND ASTROPHYSIK



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2. Preis



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Bianca NEUREITHER

Gymnasium St. Ursula Salzburg

„Schwereelosigkeit und Mikrogravitation“

Betr: Mag. S. Eder

image credit: Herfa Humaus



Preisträgervortrag: K269D, 15:15



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1. Preis



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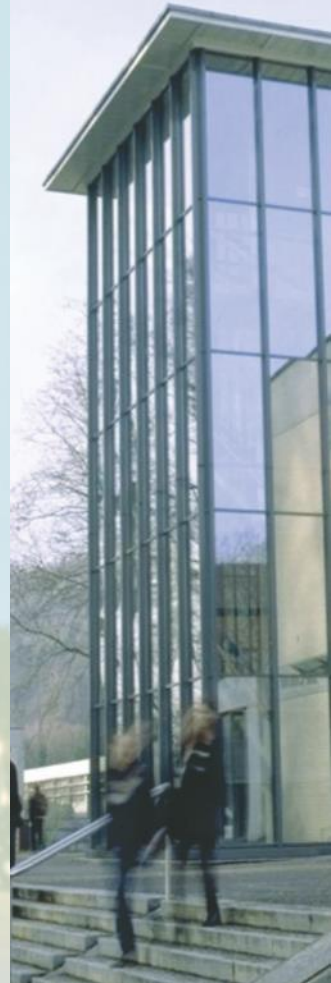
Maximilian Heinz RUEP

BRG Wallererstraße Wels

**„Introduction to Rutherford
Backscattering Spectroscopy“**

Betr: Mag. P. Kragl

image credit: Herfa Humaus



Preisträgervortrag: K269D, 15:00





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Young Physicists' Tournament

Fabian EXNER

Marc GYÖNGYÖSI

Stefan KITIC

David SCHÖNGRUNDNER

Paul WORM

Gymnasium Geblergasse Wien

Akademisches Gymnasium Salzburg

Akademisches Gymnasium Salzburg

Seebacher Gymnasium Graz

Seebacher Gymnasium Graz

Betr: Th. Lindner, A. Usunov

image credit: Herla Humaus



Präsentation: K269D, 16:30





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International Physics Olympiad

Silver Medal

Oliver EDTMAIER

BG Villach

Bronze Medal

Christian SCHUSTER

BRG Brucknerstraße Wels

Honourable Mention

Florian KANITSCHAR

HTBL Eisenstadt

Florian RIEDL

HTL-Bulme Graz

Moritz THEISSING

BGBRG Klusemannstraße Graz

Betr: H. Mayer, E. Stütz

image credit: Heria Humaus



Präsentation: K269D, 16:50



ÖPG: Boltzmann Award

Thursday, 05.09.2013, HS 1

Time	ID	PLENARY SESSION II Chair:
11:30 - 12:00	16	Single and Multielement Optomechanical Platforms <i>Claudiu Genes</i>

SPS: ABB Award

Friday, 06.09.2013, HS 1

Time	ID	PLENARY SESSION III Chair:
11:30 - 12:00	17	Fractional quantum Hall states at zero magnetic field <i>Titus Neupert</i>

ÖPG: V.-F. Hess Award

Wednesday, 04.09.2013, HS 6

Time	ID	II. ASTROPARTICLE AND NON-ACCELERATOR PHYSICS Chair: Eberhard Widmann, ÖAW Wien
16:00 - 16:30	311	Neutron Capture Measurements on ^{62}Ni , ^{63}Ni and ^{197}Au and their Relevance for Stellar Nucleosynthesis <i>Claudia Lederer</i>

SPS: IBM Award

Friday, 06.09.2013, HS 5

Time	ID	VI. CONDENSED MATTER COMPUTATIONAL AND THEORY Chair: Christian Rüegg, PSI Villigen & Uni Genf
14:15 - 14:45	143	Exotic Bound States in Low Dimensions <i>Jelena Klinovaja</i>

ÖPG: Anton-Paar Award, SPS: Oerlikon Award

Thursday, 05.09.2013, HS 5

Time	ID	V. SEMICONDUCTORS Chair: Peter Hadley, TU Graz
16:00 - 16:30	131	Structural Investigation of Novel Semiconductor Systems by Transmission Electron Microscopy <i>Heiko Groiss</i>
18:15 - 18:30	139	Magneto-optical spectroscopy of epitaxial graphene <i>Iris Crassee (talk given by Alexey Kuzmenko)</i>

ÖPG: Sexl Awards

Wednesday, 04.09.2013, K269D

Time	ID	PHYSIK UND SCHULE Chair: Engelbert Stütz, JKU Linz
13:15 - 13:35	81	Preisvortrag 1 <i>Michael Stifter</i>
13:35 - 13:55	82	Preisvortrag 2 <i>Hans Haimo Tentschert</i>