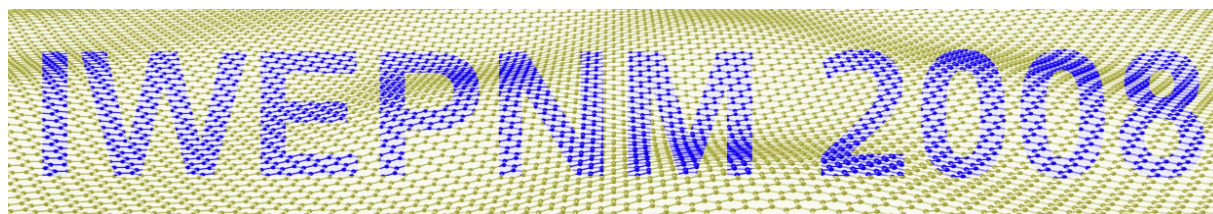


**XXII<sup>nd</sup> INTERNATIONAL WINTERSCHOOL**  
**on**  
**ELECTRONIC PROPERTIES**  
**of**  
**NOVEL MATERIALS**  
**EUROCONFERENCE**



**MOLECULAR NANOSTRUCTURES**

**1 March to 8 March, 2008**

**HOTEL SONNALP - KIRCHBERG / TIROL - AUSTRIA**

**SECOND ANNOUNCEMENT**

## Chairmen

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C. Thomsen (Berlin)  
P. Dinse (Darmstadt)  
H. Kuzmany (Wien)  
S. Roth (Stuttgart)

## Program Committee

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A. Bachtold (F)	M. Mehring (D)
P. Dinse (D)	K. S. Novoselov (UK)
M. Dresselhaus (US)	E. Obraztsova (RU)
J. E. Fischer (US)	Th. Pichler (D)
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A. Hirsch (D)	A. Rubio (E)
S. Iijima (JP)	S. Roth (D)
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H. Kuzmany (A)	Z. K. Tang (CN)
Y. H. Lee (KR)	C. Thomsen (D)
A. Loiseau (FR)	A. Zettl (US)
F. Mauri (F)	D. Zhu (CN)

## Scope

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The Winterschool will provide a platform for reviewing and discussing new developments in the field of electronic properties of molecular nanostructures and their applications.

Subjects included are:

- Carbon nanotube growth and selection
- Carbon nanotube optics and electronics
- Carbon nanotube spectroscopy
- Materials science of graphene
- Molecular nanostructure transport and spintronics
- Theory of molecular nanostructures
- Applications of molecular nanostructures
- Molecular machines and molecular motors
- Template grown molecular nanomaterials
- Single-molecule experiments

Theoretical and experimental contributions from research work in this new field of materials science are welcome.

## Time and Location

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The Winterschool will be conducted from

**1 March to 8 March, 2008**

at the HOTEL SONNALP in Kirchberg / Tirol, Austria. All participants of the Winterschool will be accommodated in hotels or in nearby private houses. Dinner will be served at the hotel for all participants. The Hotel Sonnalp is a modern, Tyrolean style building with a very cosy atmosphere, a big lecture room and several special installations like indoor swimming pool, sauna, solarium, etc. for your recreation.

## Program

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The Winterschool will start with an introductory part and then cover the following sessions:

- electronic structure of graphene & graphite
- materials science of carbon nanotubes
- transport in molecular nanostructures
- optics and spectroscopy of molecular nanostructures
- spin dynamics in molecular nanostructures (including quantum computing)
- nanowires & single molecule experiments
- applications of molecular nanostructures

## List of Invited Speakers

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Bachtold A. (Barcelona)	Hierold C. (Zurich)	Minett A. (Wollongong)
Bao X. (Dalian)	Hirsch A. (Erlangen)	Morton J.L. (Oxford)
Blase X. (Lyon)	Holczer K. (Los Angeles)	Nakayama Y. (Osaka)
Bockrath M. (Pasadena)	Huard, B. (Stanford)	Rao A.M. (Clemson)
Dora B. (Dresden)	Ilani S. (Ithaca)	Robertson J. (Cambridge)
Ensslin K. (Zurich)	Jozsa C. (Groningen)	Da Silva A. (Sao Paulo)
Falko V. (Lancaster)	Kaiser U. (Ulm)	Simon F. (Budapest)
Fischer J. (Philadelphia)	Kamaras K. (Budapest)	Souza Filho A.G. (Fortaleza)
Forro L. (Lausanne)	Kataura H. (Tsukuba)	Strano M. (Boston)
Freitag M. (Yorktown-Heights)	Khlobystov A. (Nottingham)	Suenaga K. (Tsukuba)
Fukushima T. (Tokyo)	Kolaric I. (Stuttgart)	Tausenev A. (Moscow)
González T. (Basel)	Lanzara A. (Berkeley)	Terrones M. (San Luis Potosi)
Grüneis A. (Dresden)	Lefebvre J. (Ottawa)	Tsukagoshi K. (Wako)
Harneit W. (Berlin)	Loiseau A. (Châtillon)	Vogelgesang R. (Stuttgart)
Hartschuh A. (Munich)	Louie S.G. (Berkeley)	Winkelmann C. (Grenoble)
Hata K. (Tsukuba)	Mann M. (Cambridge)	Yakobson B. (Houston)
Heinz T. (New York)	Maruyama S. (Tokyo)	Zettl A. (Berkeley)
Hersam M. (Evanston)	Mauri F. (Paris)	
	Mihailovic D. (Ljubljana)	

Invited lectures will be scheduled in the morning from 8:30 to 12:00 and in the evening after 18:30. The afternoon will be used for mini workshops or private discussions.

## Attendance

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An informal application for participation at the Winterschool must be submitted by internet at:

<http://www.iwepnm.org/registration.php>

Applications should be submitted as soon as possible and must be received no later than  
**4 JANUARY, 2008**

Early submission of application is recommended. The number of participants will be strictly limited. Applicants submitting a contribution will be considered with preference. Applicants will be notified about acceptance by 12 January, 2008.

## Abstracts and Contributed Papers

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Contributed papers covering the research topics of the meeting will be scheduled as 30 minutes research lectures or as posters. The time for research lectures includes 10 minutes for discussion.

Abstracts for invited and contributed papers must be received before 4 JANUARY, 2008 together with the informal application for participation.

**All abstracts must be submitted by internet using the application form at:**

<http://www.iwepnm.org/abstract.php>

## Proceedings

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Camera-ready manuscripts of invited and contributed papers are scheduled for publication. Detailed information will be forwarded to the contributors.

## Travel

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Kirchberg can easily be reached by train or by car. It is situated on the main railway line from Vienna to Innsbruck and quite close to the Autobahn Munich - Innsbruck. The closest international airports are Munich (80 km), Salzburg (80 km) and Innsbruck (70 km). Please remember that the winter in Tirol can be quite cold.

## Further Information

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Requests and further information should be sent to:

Prof. Dr. Christian Thomsen  
Institut für Festkörperphysik  
Skr.: EW 5-4

Technische Universität Berlin  
Hardenbergstrasse 36

D-10623 Berlin, Germany

Tel.: ++49 30 314 – 23187

FAX: ++49 30 314 – 27705

email: [iwepnm-info@physik.tu-berlin.de](mailto:iwepnm-info@physik.tu-berlin.de)

www: <http://www.iwepnm.org>

For accommodation two categories will be available:

**A:** Twin room with private bath at the Hotel Sonnalp or a nearby hotel.

**B:** Three-bed room as in category A or twin room in private accommodation.

Please choose your category. The final decision will be made by the organizers.

## Fees

The fees for the Winterschool are

€ 860,- cat. A

€ 700,- cat. B

which includes accommodation, breakfast and dinner, the proceedings, and the contribution for participation. The latter amounts to € 400,-. A limited number of single rooms will be available for an extra charge of € 200,-. The fee will be due immediately after notification of acceptance. Application for financial support including information about the scientific status and age of the applicant should be submitted together with the application for participation. Some financial support is available for students.



This Winterschool will be conducted as a Euro conference.

## The venue

