

THE 21ST COLLOQUIUM ON HIGH RESOLUTION MOLECULAR SPECTROSCOPY



Aug 31 – Sept 4, 2009

“Hotel Dei Congressi” - Castellammare di Stabia, (Naples) Italy

<http://www.inoa.it/HRMS09/>

info.hrms09@inoa.it

SECOND CIRCULAR: APRIL 2009

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SCIENTIFIC PROGRAM

- High resolution rotational, vibrational, and electronic spectroscopy of molecules (radicals, ions, complexes, clusters, ...).
- Molecular dynamics.
- Theory assisting the prediction, simulation, and interpretation of spectra.

- New techniques for high-resolution spectroscopy.
- Applications to atmospheric sciences, astrophysics, planetology, combustion, gas-phase biomolecules, metrology and fundamental physics, cold molecules.

SOCIAL PROGRAM FOR ACCOMPANYING PERSONS

A social program will be organized for accompanying persons. It will consist of various sightseeing activities. More detail will be given later on the conference's web site.

POSTER SESSIONS

The poster sessions will take place in the Hall of the «Hotel dei Congressi». A board (**1.5 m wide and 1 m high**) will be available for each participant wishing to present his/her work.

ELECTRONIC ABSTRACT SUBMISSION (EAS)

Abstracts for the Colloquium must be submitted electronically as a text file formatted as a LaTeX_{2 ϵ} source. Abstracts submitted in any other way WILL NOT be accepted. We have chosen this system in order to get a unified presentation for the STABIA09 abstract book. The EAS program is a modified version of the EMSS software created by Prof. T. A. Miller and Dr. S. Panov for the OSU Symposium on Molecular Spectroscopy. It was kindly provided to us by Prof. T. A. Miller from the Ohio State University (Columbus, Ohio, USA). **The abstract electronic submission system will be opened at the beginning of April, 2009. The deadline for submission is June 1st, 2009.** We indicate below where to find all the necessary information needed to submit your abstract(s) for STABIA09. Please **read the instructions carefully**. Electronic abstract submission is a **very simple process**. You will only need to write a **simple text (ASCII) file formatted in the correct way**. Note that **there is no need for you to install LaTeX on your computer**. We provide a **test facility** so that you can test the LaTeX compilation of your abstract and see the result online, exactly as it will appear in the STABIA09 abstract book. **The instructions** for electronic submission of abstracts can be found on the dedicated Web page, <http://hrms.na.inoa.it/eas/>. **Please note that any abstract for which none of the authors has registered as a participant to the Colloquium will not be retained in the final STABIA09 abstract book.**

AMAT-MILLS AWARD

The 2009 Amat-Mills Award will be awarded to **a young spectroscopist either working for a PhD or having completed it within the last 12 months (at the time of the meeting)**. The award will consist of a diploma and the recipient will be given a selection of books. The candidates must present *a regular poster* at the "21th Colloquium on High Resolution Molecular Spectroscopy" on their PhD work *and assume the sole responsibility for the presentation during the entire session*. Applications are limited to one per research group and **must be nominated by the PhD research supervisor who will briefly give the reasons for the nomination (1/2 page)**. This information, together with the start and expected end dates of the PhD, and a printed copy of the abstract of the poster to be selected for the competition, should be sent to the local organizer **before June 1st, 2009**. The abstract itself must also be submitted as indicated above **before June 1st, 2009**.

PRELIMINARY PROGRAM

Time	Aug. 31 Monday	Sept. 1 Tuesday	Sept. 2 Wednesday	Sept. 3 Thursday	Sept. 4 Friday
8:30	Welcome		Inv. Speakers I Cold molecules mini-symposium		
9:00	Inv. Speakers A	Inv. Speakers E		Inv. Speakers K	Inv. Speakers N Young speaker session
10:00			Coffee break & Poster Session J		
10:30	Coffee break & Poster Session B	Coffee break & Poster Session F		Coffee break & Poster Session L	Coffee break & Poster Session O
11:30			Picnic Lunch & Excursion		
12:30	Lunch	Lunch		Lunch	Lunch
13:00					
14:00	Inv. Speakers C Exoplanet mini-symposium	Inv. Speakers G			Free Afternoon
15:30	Coffee break & Poster Session D	Coffee break & Poster Session H			
19:00	Reception	Free Dinner		Free Dinner	
20:30			Banquet	Coffee break & Poster Session M	

INVITED SPEAKERS

- Bernath, Peter** High Resolution Spectroscopy from Orbit
- Pratt, David W.** Molecular Secrets from High Resolution Spectroscopy in the Gas Phase
- Flaud, Jean-Marie** Infrared quantitative spectroscopy and atmospheric satellite measurements
- Jäger, Wolfgang** High Resolution Spectroscopy of Clusters and Doped Helium Droplets
- Jungen, Christian** The Rydberg equation and its ramifications: a story that began before quantum mechanics and which is still continuing
- Puzzarini, Cristina** Hyperfine structure of rotational spectra: state-of-the-art experimental and theoretical determinations
- Signorell, Ruth** Vibrational Excitons in Aerosol Spectroscopy
- Tanaka, Keiichi** High-resolution spectroscopy of transient species with supersonic jet technique and UV photolysis
- Vander Auwera, Jean** Vibration-rotation line intensities for constituents of planetary atmospheres
- Orr-Ewing, Andrew** Cavity enhanced spectroscopy with diode lasers

MINI-SYMPOSIUM: COLD MOLECULES

- Grimm, Rudi** Ultracold Feshbach molecules
- Comparat, Daniel** Molecular vibrational cooling by Optical Pumping with shaped femtosecond

pulses

Willitsch, Stefan

Chemical reactions with translationally cold ions in ion traps

MINI-SYMPOSIUM: EXOPLANETS

Swain, Mark

Exoplanet spectroscopy

Kaltenegger, Lisa

Evolution of a habitable planet - from Earth to Super-Earths

Tinetti, Giovanna

Spectral retrieval of exoplanet atmospheres

YOUNG SPEAKER SESSION

Albert, Sieghard

Very high resolution FTIR spectroscopy of chiral, aromatic and other molecules

Eikema, Kjeld S

Extreme ultraviolet frequency comb spectroscopy of helium

Gagliardi, Gianluca

Metrology by optical fiber sensors

REGISTRATION FORM

Return before **May 25th, 2009** to:

Last name _____

First name _____

Laboratory _____

Institution _____

Street _____

City _____

Postal Code _____

State/Province _____

Country _____

Email _____

Fax _____

Telephone _____

Arrival date _____

Departure date _____

Financial support required* yes no

* Financial support will be available for a **very limited number** of participants from less-favored countries

4S-Hotel (night+breakfast - cost per person per night)			
Single Room - 75 €	Double room - 50 €	3-bed room - 45 €	4-bed room - 40 €

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aug 30 <input type="checkbox"/>	Aug 31 <input type="checkbox"/>	Sept 1 <input type="checkbox"/>	Sept 2 <input type="checkbox"/>
Name of accompanying persons _____			
Name of room-mate participants _____			

LIST of 4S-HOTELS

Hotel dei Congressi

Viale delle Puglie 45 / Castellammare di Stabia / 80053 NA

Ph.: +39-0818722277 / Fax: +39-0818722277

www.hoteldeicongressi.com / reception@hoteldeicongressi.it

Hotel Stabia

C.so Vittorio Emanuele 101 / Castellammare di Stabia / 80053 NA

Ph.: +39-0818722577 / Fax: +39-0818722105

www.hotelstabia.com / info@hotelstabia.com

Hotel La Panoramica

Via Panoramica 119 / Castellammare di Stabia / 80053 NA

Ph.: +39-0818026119 / Fax: +39-0818026119

www.grandhotellapanoramica.com / info@grandhotellapanoramica.com

The hotel reservation must be done directly by the participant. For this purpose, send a copy of the above form to the selected hotel too (by fax or e-mail). Please, also send a copy of your credit card and a deposit of 100,00 € per person.

Upon availability, the hotels will offer rooms at the same special price in the week preceding and following the conference.

3S-Hotel (night+breakfast - cost per person per night)				
Single Room - 65 € <input type="checkbox"/>	Double room - 45 € <input type="checkbox"/>	3-bed room - 40,5 € <input type="checkbox"/>	4-bed room - 36 € <input type="checkbox"/>	
Aug 30 <input type="checkbox"/>	Aug 31 <input type="checkbox"/>	Sept 1 <input type="checkbox"/>	Sept 2 <input type="checkbox"/>	Sept 3 <input type="checkbox"/>
Name of accompanying persons _____				
Name of room-mate participants _____				

LIST of 3S-HOTELS

Hotel Torre Varano

Via Passeggiata Archeologica / Gragnano / 80054 NA

Ph.: +39-0818718200 / Fax: +39-0818718396

www.hoteltorrevarano.it / info@hoteltorrevarano.it

The hotel reservation must be done directly by the participant. For this purpose, send a copy of the above form to the hotel too (by fax or e-mail). Please, also send a copy of your credit card and a deposit of 100,00 € per person.

Upon availability, the hotel will offer rooms at the same special price in the week preceding and following the conference.

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Registration fees (including all the 5 lunch meals)		
Category	Before June 1st	After June 1st
Student** <input type="checkbox"/>	230 €	280 €
Other participant <input type="checkbox"/>	360 €	410 €

** If you claim the reduced fees for students, please submit a copy of your student identity card or its equivalent

PLEASE CALCULATE THE AMOUNT DUE		
Registration fee		= €
Number of accompanying persons*** <input type="checkbox"/>	X 90 €	= €
TOTAL PAID		= €

*** Registration fee for accompanying persons includes reception, picnic lunch, excursion and banquet