



**Workshop on  
Thermonuclear Reaction Rates for Astrophysics Applications**  
24-25 November 2011, Athens, Greece  
<http://libra.inp.demokritos.gr/THERRAA>

2<sup>nd</sup> Circular

12 June 2011

Dear Colleagues

This is the 2<sup>nd</sup> circular for the Workshop on Thermonuclear Reaction Rates for Astrophysics Applications, to be held in Athens, Greece, from 24 to 25 November 2011.

The workshop is co-organized by the Institute of Nuclear Physics, National Center for Scientific Research “Demokritos”, and the Institut d’Astronomie et d’Astrophysique, Université Libre de Bruxelles. It is funded by the FP7/REGPOT/LIBRA-Grant 230123.

The workshop will cover aspects of stellar evolution, as well as light- and heavy-element nucleosynthesis, ranging from the state-of-the-art astrophysics models to the nuclear physics needs with special emphasis on the role and determination of thermonuclear reaction rates. The topics of the workshop, in relation with thermonuclear reaction rates, are the following:

- BBN, novae, hydrostatic and explosive stellar evolution
- compilation of thermonuclear reaction rates
- key reactions: experiment and theory
- s-, r- and p-process nucleosynthesis
- nuclear experiments: stable and unstable beams
- nuclear theory: modelling and codes, nuclear ingredients

An International Program Advisory Committee has been formed to advise on the scientific program and the submitted abstracts comprising

A. Coc (CSNSM)  
B.S. Meyer (Clemson Univ.)  
S.V. Harissopulos (NCSR “Demokritos”)  
H. Utsunomiya (Konan Univ.)  
A. Zilges (U. of Cologne)

The scientific program will include keynote presentations by the following invited speakers:

A. Arcones (Basel)	C. Iliadis (Chapel Hill)
M. Arnould (ULB)	J. Jose (UPC/Barcelona)
E. Bauge (CEA Bruyeres-le-Chatel)	A.-C. Larsen (U. of Oslo)
R. Capote (IAEA)	A. Lefebvre-Schuhl (CSNSM)
A. Chieffi (INAF-IASFC)	D. Lunney (CSNSM)
A. Coc (CSNSM)	M. Paul (Hebrew Univ.)
F. de Oliveira (GANIL)	M. Pearson (U. of Montreal)
P. Descouvemont (ULB)	O. Straniero (INAF-OAC)
M. Gai (Yale Univ.)	F. Strieder (U. Bochum)
S. Harissopulos (NCSR Demokritos)	K. Takahashi (ULB)
S. Hilaire (CEA Bruyeres-le-Chatel)	H. Utsunomiya (Konan Univ.)
M. Igashira (Tokyo Inst. Technology)	A. Zilges (U. of Cologne)

### **Abstracts**

Complementary oral contributions selected from abstracts submitted online will also be scheduled. Abstracts can be submitted online at the workshop [website](#). The deadline for abstract submission is **5 September 2011**. Submitted abstracts will be reviewed by the members of the IPAC and authors will be notified immediately.

### **Venue**

The venue of the workshop is the Institute of Nuclear Physics of the National Center for Scientific Research "Demokritos". The INP is among eight institutes that form the National Center for Scientific Research "Demokritos", the oldest and largest scientific research establishment in Greece. Research activities carried out at INP include nuclear structure, nuclear reactions and astrophysics, particle physics, neutrino astronomy and cosmology. The INP Tandem Accelerator Laboratory hosts a 5 MV Tandem Accelerator and under the EC FP7/REGPOT funding program has been recognized as a Center of Excellence in Low-energy Ion-Beam Research and Applications (LIBRA).

### **Location**

NCSR "Demokritos" is located on the foot of mount Ymettos, in Aghia Paraskevi, a north-eastern suburb of Athens, about 12 Km from downtown Athens and 15 Km from the Athens International Airport (El. Venizelos). It covers an area of 600 acres in a pine-tree forest.

**From Athens downtown** it can be reached by metro (blue line from Syntagma Sq or Monastiraki to Nomismatokopecio Station). Bus line B5 runs from Nomismatokopecio Station to NCSR "Demokritos" ("Demokritos" stop - about 20-30 meters from the entrance of NCSR "Demokritos").

**From Athens International Airport** it can be reached by the blue metro line from the airport metro station to Nomismatokopeio Station. The rest is the same as above. Alternatively, there are express bus services E94, E95 that stop at Aghia Paraskevi Square. Bus line B5 runs from the square to NCSR "Demokritos" and stops at "Demokritos stop" about 20-30 metres from the entrance to the center. A taxi ride from Athens Airport to NCSR "Demokritos" takes about 20 min. and costs around 30 Euros depending on traffic.

### **Accommodation**

A block of rooms has been reserved for workshop participants at the President Hotel, Kifissias Avenue, at a special rate:

-single room (American Buffet Breakfast & taxes incl.): 70 Euros per day

-double room (American Buffet Breakfast & taxes incl.): 75 Euros per day

Participants should proceed with making their reservations by completing the attached form ([download](#)) and sending it to the hotel **Reservations Department (Ms. Maria Alysandratou)** by e-mail: [reservations@president.gr](mailto:reservations@president.gr) or fax: +30 210 6980840 **by 24 August 2011**. After this date rooms will be reserved subject to hotel availability.

**How to get there:** The hotel is within walking distance from two blue-line metro stations, Ampelokipi Station and Panormou Station. From Athens International Airport take the blue metro line (8 Euros) to:

**Panormou Station:** at the station follow the exit to L. Riankour Str. and then walk down Larissis Str. towards Kifissias Ave. Turn right into Kifissias Ave. and within a 5 min. walk you will have arrived at Hotel President.

**Ampelokipi Station:** at the station follow the exit to Alexandras Ave. and then walk towards Kifissias Ave. At the major crossroads turn left into Kifissias Ave. and continue for about 5 min. until you reach Hotel President on your left.

A map of the hotel area including the two metro stations is available [here](#).

Workshop participants are encouraged to make reservations at President Hotel because apart from the special rates offered, there will also be a bus service from the hotel to NCSR "Demokritos" and back, during both days of the workshop, for their convenience.

## **Financial Support**

No fees will be charged for the workshop. Coffee breaks and lunch meals on 24 and 25 November, as well as the Workshop Dinner on 24 November, will be offered free of charge to all workshop participants.

Some financial support will be available for young researchers attending and giving oral contributions. Requests should be forwarded to Vivian Demetriou ([vivian@inp.demokritos.gr](mailto:vivian@inp.demokritos.gr)).

All information about the workshop is also available at the workshop [website](#). Do not hesitate to contact us for any further clarifications.

We are looking forward to welcoming you to Athens

For the Workshop Organizing Committee

Stéphane Goriely  
Vivian Demetriou



**PRESIDENT**  
HOTEL ATHENS

**RESERVATION FORM –**  
**THERRAA**

Please fill in and return form to the hotel no later than the **AUGUST 24<sup>TH</sup> 2011**

The Hotel will send back a confirmation for the reservation requested.

Reservations received after this date will be offered subject to availability of hotel.

**GUEST NAME:** \_\_\_\_\_

**CREDIT CARD DETAILS of the Guest**

**Credit Card Holder's Name** .....

**Credit card number** .....

**Expiration date** / / / **cvv #** (3 digits)

**Card Holder's Signature** .....

**E-mail:** ..... **Tel#:**..... **Mobile :**.....

**RESERVATION DATES**

**CHECK IN:**

**CHECK OUT:**

**ROOM TYPE:**

**SINGLE:**  **TWIN:**  **DOUBLE:**

Estimated time of arrival at the hotel \_\_\_\_\_

Estimated time of departure from the hotel \_\_\_\_\_

**SINGLE room 70.00€ per day**  
**TWIN/DOUBLE room 75.00€ per day**

**Cancellation policy: Any cancellation made less than 72 hours prior to client's arrival, will incur 100% cancellation fee, which will be charged to the above credit card.**

**CHECK IN: 14:00 HRS. CHECK OUT 12:00 HRS.**

\*Room rates include American buffet breakfast and all taxes.

Rates quoted are per room- per day.

**For reservations (Reservations Department Mrs.Alysandratou Maria):**

Tel. : +30 210 6989000 - Fax. : +30 210 6980840

Email : [reservations@president.gr](mailto:reservations@president.gr)

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