

Carpathian Summer School of Physics 2007

Exotic Nuclei and Nuclear/Particle Astrophysics (II)

Sinaia, Romania, August 20-31, 2007

Final circular

Organizers

- “Horia Hulubei” National Institute for Physics and Nuclear Engineering, Bucharest, Romania
- Cyclotron Institute, Texas A&M University, College Station, TX, USA

Topics

- Structure of Exotic Nuclei
- Exotic Matter and Decays
- Phase transitions in hot nuclei
- Nucleosynthesis
- Nuclear Physics for Astrophysics
- High Energy Cosmic Rays
- Neutrino Physics
- Large Facilities

International Advisory Committee: P. Biermann (Bonn), G.E. Brown (Stony Brook), R. Casten (Yale), H. Ejiri (Osaka), M. Harakeh (KVI), W. Haxton (Seattle), H. Rebel (Karlsruhe), C. Rolfs (Bochum), G. Sigl (Paris), J. Vary (Ames), M. Teshima (Munich), R.E. Tribble (Texas A&M), M. Wiescher (Notre Dame), A. Wolfendale (Durham), N.V. Zamfir (Bucharest)

Organizing Committee: Sabin Stoica (IFIN-HH) and Livius Trache (Texas A&M Univ.) - directors
Iliana Brancus and Florin Carstoiu (IFIN-HH) – scientific secretaries
A. Banu (Texas A&M Univ.), M. Horoi (C. Michigan Univ.), F. Negoita (IFIN-HH), E. Pauna (IFIN-HH), V. Popa (ISS Bucharest), M. Rusu (Univ. of Bucharest), C. Simion (IFIN-HH), G. Tabacaru (Texas A&M Univ.)

Invited lecturers: S. Bettini (Padua), P. Biermann (Bonn), A. Bonaccorso (Pisa), C. Borcea (Geel), F. Carstoiu (Bucharest), D. Delion (Bucharest), C. Diaconu (Marseille), H. Ejiri (Osaka), B. Fields (Urbana), C.A. Gagliardi (Texas A&M), M. Gai (Avery Point), G. Giacomelli (Bologna), Grama N. (Bucharest), S. Grevy (Caen), M. Hass (Rehovot), M. Harakeh (Groningen), J. Hardy (Texas A&M), S. Harissopulos (Athens), A. Haungs (Karlsruhe), M. Horoi (Mt. Pleasant), M. Junker (Gran Sasso), H. Kosmas (Ioanina), K-L Kratz (Mainz), V. Kroha (Prague), S. Lenzi (Padua), S. Mioduszewski (Texas A&M), G. Navarra (Torino), A. Petrovici (Bucharest), M. Petrovici (Bucharest), D. Poenaru (Bucharest), H. Rebel (Karlsruhe), R. Rapp (Texas A&M), C. Rolfs (Bochum), H. Schatz (MSU), S. Shlomo (Texas A&M), E. Somorjai* (Debrecen), C. Spitaleri (Catania), J. Suhonen (Jyvaskyla), T. Suomijarvi (Orsay), X. Tang (Notre Dame), M. Teshima (Munich), L. Trache (Texas A&M), R.E. Tribble (Texas A&M), J. Vary (Ames), C. Weinheimer* (Muenster), A. Wolfendale (Durham), Y. Wong (Paris), Ph. Woods (Edinburgh), G. Wrochna (Warsaw), K. Yoneda (Tokyo) (*- not confirmed)

Sponsor: National Authority for Scientific Research, Bucharest ROMANIA

General information:

This is the final circular for the **Carpathian Summer School of Physics 2007** that is organized this month, August 20-31, 2007 in the Carpathian resort of Sinaia, Romania. It will be posted on our websites <http://cyclotron.tamu.edu/cssp07/> and <http://theory.nipne.ro/cssp07/>. The short form program in its latest version will be posted on the same sites.

The invited talks will be 1 hour long, discussions and a 5 min break included. The oral presentations will be of 20 min, with 3 min included for discussions.

This circular gives final information and advice for the participants already confirmed.

The conference will be held in Sinaia, a year-round mountain resort in the heart of the Carpathians, about 125 km north of Bucharest, less than 2 hours drive from the main international airport of Romania.

The title, the major topics, the organizers and IAC, as well as the list of invited lecturers are given on the first page. This part is to give other practical information.

There two special events imbedded in the school:

On **Friday August 24th**, please join us for a minisymposium that will be dedicated to the 60th anniversary of Professor **R.E. Tribble**. Past and current collaborators, colleagues or students will present talks related in a way or another to his activity. A dinner on a terrace on the mountain high above the city will follow.

On **Monday August 27th**, in the afternoon, a round table entitled **“Science education and the public understanding of physics”** is open to the public. The organizers intend to benefit from the presence of distinguished lecturers to CSSP07 to start a less formal, more open discussion of these subjects and invited Romanian politicians, science officials, professors and teachers, media. We want to know if we could benefit from your expertise and connections in Romania and in the rest of Europe for this special session.

Accommodation

The venue of the school will be Hotel International**** (<http://www.international-sinaia.ro>), a four star complex, where most of the participants will be accommodated in single and double-rooms and in luxury suites at the following prices:

Double room in single occupancy:	205 Lei (Romanian currency), about 65 euro/day
Double room in double occupancy:	118 Lei, about 37 euro/ person/day
Deluxe double room:	300 Lei, about 95 euro/day.
Luxury suites:	550 Lei, about 170 euro/day.

These prices are available **only** if the participants are registered **via the organizers**.

Participants DO NOT NEED to make their own reservations, we made them for you.

The hotel costs and any other expenses can be paid in cash or credit card. All major credit cards are accepted. ATMs are easily available at the airport and in Sinaia, and we believe are the easiest sources of local currency.

Breakfasts are included in room's price. Lunches are included in the conference fee. Additional meals (dinners) can be pre-arranged at the same hotel, or the participants can chose to manage by themselves with those abundantly available around, in walking distance.

School fee: There will be a conference fee of **350 euros** for those attending the whole period, and **200 euros** for those attending a week only. It will cover the **cost of lunches**, book of

proceedings, some social events, including local excursions, and conference expenses. The fee will be paid on arrival. Local and major currencies will be accepted, but **cash only**.

Fellowships: a number were available and awarded for students (consisting of full or partial local support) on a competitive basis. The applicants accepted were announced in due time and helped to obtain visas where needed. We hope to see you all in Sinaia. Please announce us if you cannot make it!

Transportation

To BUCHAREST airport. You can reach the Bucharest airport (OTP) (“Henri Coanda” International Airport Otopeni) by one of the numerous flights that connect the Romanian capital with the major European airports.

From Bucharest to SINAIA. Participants who would like assistance with transportation to/from Sinaia were asked and are again asked here, if they did not do so already, to express this request and provide organizers with the exact dates/times of their arrival and departures. The cost will be 20 euros. On **Sunday August 19-th at 14:00 and at 18:00**, respectively, two minibuses were arranged to transfer the participants from the airport to the hotel in Sinaia. A school representative with a school poster will wait for you around the “Information” booth at the arrival gate. Return cars or minibuses will be arranged after your arrival in Sinaia.

By **rental car**. If you have reserved a car, or you want to rent one with the many agencies present in the airport, after you pick it, you have to drive out of the airport complex, then turn right on **DN1 (E60)** in direction Ploiesti-Brasov. After about 100 km you reach Sinaia. Hotel International is on your left hand side on str. Avram Iancu, corner with M. Kogalniceanu str.

By **train**. There are train connections to Sinaia from all Europe. At the train station you can pick a taxi, or climb a flight of stairs from the station to the city level, then walk to your left for a few hundred meters to the hotel (which is going to be on your right).

If you arrive at the Bucharest (Otopeni) airport and do not have an arrangement for car to Sinaia, you can take a taxi to the “Bucuresti Nord” (ask the taxi-driver for “Gara de Nord”) railway station (~15km and ~15 euros), then the train until Sinaia (~125 km). Multiple rent-a-car services are also available at the airport and online reservations are possible.

The schedule of trains is included below and on the School site.

Bucuresti to Sinaia (daily)

Station of departure	Departure time	Arrival	Duration	Type
Bucuresti Nord	6:08	7:40	1:32	R
Bucuresti Nord	6:30	8:02	1:32	R
Bucuresti Nord	7:08	8:44	1:36	A
Bucuresti Nord	7:30	9:01	1:31	R
Bucuresti Nord	9:30	11:16	1:46	IC
Bucuresti Nord	10:30	12:14	1:44	R
Bucuresti Nord	11:32	13:04	1:32	R
Bucuresti Nord	12:30	14:00	1:30	IC
Bucuresti Nord	14:30	15:59	1:29	R
Bucuresti Nord	16:30	18:02	1:32	IC
Bucuresti Nord	17:08	18:36	1:28	R
Bucuresti Nord	18:40	20:09	1:29	R
Bucuresti Nord	20:30	22:01	1:31	IC
Bucuresti Nord	23:30	01:05	1:35	R
Bucuresti Nord	23:50	01:29	1:39	R

A: accelerat R: rapid IC: intercity

There are many other trains not tabulated above. Just ask at the “Information desk”: first train to Sinaia, and you will obtain the pertinent information.

Internet: yes, there will be internet, wireless and cable, in the “Forum” amphitheatre (our conference room) and in most of the rooms. The hotel has a new, well equipped Conference center.

Abstracts were collected into a conference brochure which will be distributed in the welcome package, upon your arrival.

Proceedings will be published in the American Institute of Physics *Conference Proceedings* series. The invited lectures and the oral contributions will be published in the same volume. **The manuscripts, in camera ready electronic form, are due at the organizers by Nov. 1st, 2007.** Instructions are included in the welcome package and will be posted on the web.

Social events

During the school we shall also organize excursions and social events in order to create a nice atmosphere and to provide the participants with a flavour of Romanian landscape and culture. Sinaia is “the Pearl the Carpathians”, close to the geographical centre of the country, itself a prime tourist attraction and in close proximity to many first class natural and historical attractions of Romania. Extra activities, from visiting the Peles Castle of the last royal family of Romania, with its beautiful art collection or the open air folklore exhibit and market, to dining and wining at restaurants with live Romanian music, to mountain climbing, are all available within walking distance, in Sinaia.

Excursion: on Saturday Aug 25th we organize the school excursion in two old Transylvanian cities, **Sibiu** (this year’s “**cultural capital of Europe**”) and **Sighisoara** (real Dracula’s birthplace). Please register for it at school’s registration desk, the cost is about 40 euros.

Shorter excursions to nearby Brasov, Bran castle and Poiana Brasov, are possible by car, bus or train and group trips will be arranged.

School’s banquet, in traditional Romanian style, is organized on the evening of **Thursday Aug 30th** at Paraul Rece, outdoors and indoors.

Variae: Sinaia is 800 m altitude. It is summer in August, but summer in the mountains. Recent temperatures went above 30 C, and then down to 7 C. If you go on our website, click on “Accommodation” and at the lower right you’ll see the current temperature in Sinaia, courtesy our webmaster. A pullover and a rain coat will prove to be valuable. Hiking can be a very rewarding pass-time activity, and you’ll find from very easy to challenging trails in walking distance from the hotel. Prepare accordingly.

Contact:

- Dr. Sabin Stoica, IFIN- HH Bucharest, phone: +40 21 404 2388, fax: +40 21 457 5332
stoica@nipne.ro
 - Dr. Livius Trache, Cyclotron Institute, Texas A&M Univ. Cell phone in Romania (40)-(0)-748-514961. email: livius_trache@tamu.edu
 - Secretariat cssp07@theory.nipne.ro
- Up-to-date information on our website: <http://cyclotron.tamu.edu/cssp07> or its Bucharest mirror: <http://www.theory.nipne.ro/cssp07>.