This 24th ISYA took place in Romania at University of Bucharest. All the activities were at the Faculty of physics, located at Magurele, a suburb of Bucharest.

It was organized in collaboration with Dr. Magda Stavinschi, Director of the Astronomical Institut of the Romania Academy of Science, Bucharest.
The Local Organizing Committee was chaired by Prof. Mircea V. Rusu (Faculty of Physics, University of Bucharest).

The foreign Faculty were:
Attilio Ferrari - University of Turin, Italy
Michèle Gerbaldi - Université de Paris Sud XI, Institut d’Astrophysique de Paris, France
Edward Guinan - University of Villanova, USA
Donat Wentzel - University of Maryland, USA
Jean-Paul Zahn - Observatoire de Paris, France

The Romanian Faculty were:
Tatiana Angelescu - University of Bucharest
Andrei Inonescu - University of Bucharest
Mircea Rusu - University of Bucharest
Magda Stavinschi - Astronomical Institut of the Romanian Academy of Sciences, Bucharest

Among the foreign faculty, Michèle Gerbaldi, Edward Guinan (assistant Secretary for the ISYA) and Donat Wentzel were able to be present during the all ISYA, Attilio Ferrari stayed 10 days, and Jean-Paul Zahn was present during the last week.

I - Participants

All the applications for this ISYA were received by e-mail or faxes. These communications were essential to coordinate the acceptance of the applicants as well as to set up the travel budget. 78 applications were received from 16 different countries, showing the impact of previous ISYA. 13 applications came from Egypt but none from Iran.

In August 1999 a Workshop was held at Bucharest under the auspices of the NATO Advanced Study Institute: ”Advances in Solar Research at Eclipses, from Ground and from Space”. We had, so far, the possibility to propose to some of the candidates to participate to this Conference instead of the ISYA, taken into consideration their background, some of the applications being issued by post-doctorate students.
Thanks to a good collaboration between the organizers of the ISYA and the NATO Workshop such solution gave us the possibility to reply positively to more applications. Of course this was possible only for students coming from a country eligible as ”NATO country”.

20 foreign and 32 Romanian students were invited to participate to this 24th ISYA.
At the last moment two foreign participants cancelled their participations as well as some of the selected Romanian students.

The ISYA was held with 18 foreign and 23 Romanian participants.

The participants came from:
- Algeria: 2 (men)
- Egypt: 3 (women)
- Morocco: 2 (men)
- Nigeria: 1 (man)
- Russia: 3 (2 women; 1 man)
- Turkey: 2 (1 woman; 1 man)
- Uzbekistan: 3 (women)
- Vietnam: 2 (women)
- Romania: 23 (11 women, 12 men).

II - Academic Activities

The background of the 41 participants ranged from a BSc. to a PhD started from about one year or half (3 of them) and one post-doctorate participant. Most of the participants had a MSc in astrophysics. Some (2 foreign and 2 Romanian) participants had previous experiences in teaching at high school level or have been involved in Training the School Teachers at the University.

Most of the Romanian participants had followed the "Module d'études francophones en astronomie". This module give them a good background in stellar and extragalactic astrophysics.

All the lectures were given in English, each lecture was of 90mn.

At the beginning of the ISYA, the spoken English level of the participants was ranging from "very fluent" to "hesitant"; on the second week the language barrier was broken.

But the language was not a real barrier even on the first week for the interactions between the participants and the faculty.

It must be stressed that the personal involvement of the Romanian participants was impressive, in particular to make comfortable the foreign participants not only at their arrival but during the all ISYA.

II - 1 - Lectures

The topics covered by the lectures are:

* Tatiana Angelescuc
  1. The modern astrophysics and the physics of elementary particles
  2. The neutrino and its implications in astrophysics and cosmology
  3. Quantum cosmology: the first three minutes.

* Attilio Ferrari
  1. Morphology of galaxies
  2. Active galaxies
  3. Extragalactic jets
  4. Unified models of active galactic nuclei

* Michèle Gerbaldd
  1. Structure of stellar atmospheres
  2. Determination of the abundances in a stellar atmosphere
  3. Stellar atmosphere models and synthetic spectra
  4. Links between theory and observations
Edward Guinan
1. Eclipses and occultations: what we learn
2. The Sun in time
3. Variable stars as astrophysical tools: checks on stellar evolution and stellar structure
4. New Developments in exosolar planets.

Andrei Ionescu
1. Planetary atmosphere; properties and structure
2. The interactions in the high atmosphere with the Solar and cosmic radiation
3. Cosmic masers

Mircea Rusu
1. Chaos in physics and astrophysics
2. Fractal structure of the Universe
3. Characterization of a non-linear dynamical system; noise analysis.

Magda Stavinschi
1. Time
2. Mechanism of solar eclipses

Don Wentzel
1. An introduction to the Sun, with an emphasis on the role of the magnetic field in the atmosphere
2. Magnetostatics: the concepts of magnetic pressure, magnetic tensions, force-free fields, with applications for solar and some cosmic examples.
3. MHD: the frozen-in approximation, solar and cosmic examples
4. Basic hydrodynamics of the solar wind, and magnetic influences.

Jean-Paul Zahn
1. Internal structure of the Sun
2. Convection
3. Helioseismology

The notes of the lectures were photocopied and distributed to the participants.

Two very general conferences on total solar eclipses were given by Jay Pasachoff in the framework of the NATO Workshop to which the ISYA participants joined.

A special session on Teaching Astronomy was organized at the Children Palace which is an Institution open to the children till 18 years old, to practice activities in all domains from arts to sciences.

Astronomy is one of them. In a dome, there is a small refractor, several small telescopes can be used on a terrace, there is a coelostat to project a Sun image.

During this session Educational Activities of the IAU were presented.

II - 2 - Practical Activities

Formal and informal sessions of practical activities were organized.

A session on the visual analysis of solar photographs has been set up, the photographs being provided by D. Wentzel.

Two sessions on data reduction were organized, using the PC of the Physics Department. These data on stellar photometry and spectroscopy were brought by E. Guinan and M.
Gerbaldi and illustrated the lectures on binary stars as well as those on stellar atmosphere structure.
During the all ISYA we had access to the computers and accounts have been opened for everybody. The MIDAS software has been implemented and training sessions to get familiar with it took place.
Connections through Internet were very fast due to the use of a dedicated line via a satellite. Thanks to this favorable situation query of data bases could be done to enrich the discussions with the participants. No astronomical library being available at this University the access to ADS was extremely useful for these discussions. Reprints brought by the foreign faculty on related topics to their lectures were widely used by the participants.

A MEADE telescope (25cm) bought by the Bucharest observatory has been used during the ISYA. Ed Guinan brought a photometer which could have been used with it. The set up of the instrumentation was done at the beginning of the second week, unfortunately no "good" nights allowed to do variable stars observations. This instrumentation even of small size was very much appreciated by the participants.

We visited the instrumentation available at the Bucharest Observatory.

II - 3 - The solar total eclipse
Under the guidance of E. Guinan and M. Rusu, several small experiments were prepared to be done during the total solar eclipse:
- photometric ones to measured the intensity in various wavelength domains, of the corona
- measurement of ionospheric radio emission.
As the sky has been partially cloudy, the photometric experiments could not be performed, but various photographic and video observations were done: by chance the phase of totality was observed at Magurele.

II - 4 - Participant Talks
Sessions were organized for talks by the participants about their Institutions and their works. 19 talks were given always followed by ample discussion. These talks were mainly related to the presentation of either their MSc or the beginning of their PhD.

The timetable of all the activities during this ISYA as well as the names and addresses of all the participants have been printed and distributed. This programme is given in Annex.

III - Non Academic Activities
Academic activities were stopped during the Saturday afternoon and the Sunday.
Bucharest sightseeing was organized on Saturday July 31rd, afternoon as well as a visit to the Village Museum on August 7th, afternoon.
On Sunday August 1st, a one-day tour was arranged at Sinaia in the Carpathes mountains where is the former royal summer residence: Peles Castle.
On Sunday 8th a one-day tour was organized to Curtea de Arges, an old historical City.
A friendly "Romanian night" was organized by the Romanian participants as well as parties.
IV - Budget and Local Organization

An important help was given by the colleagues of the Faculty of Physics in many practical domains during the ISYA.

The IAU and UNESCO provided travel grants to foreign and Romanian participants.

The stay during the ISYA was entirely paid by the Romanian sponsors for the students as well as for the faculty members. The main Romanian sponsor is the Faculty of Physics, University of Bucharest, but several organizations and companies from Romania also contributed to support the ISYA as well as individuals. The list is given in Annex (see the Programme of the 24th ISYA).

Acknowledgments must also be given to the French CNRS (Centre National de la Recherche Scientifique) which contributed also to this ISYA through the PICS (Joint Programme in Astronomy between France and Romania).

The faculty of Physics of the Bucharest University is located at Magurele in a suburb, 15km from downtown.

All the meals were taken at the University canteen which was reopened specially for the ISYA.

The Housing for the students were provided at the Dormitories on the Magurele Campus.

The faculty members stayed at the hotel either at Magurele or downtown in an hotel run by the University.

All the foreign participants and the faculty members have been provided with free pass in the bus transportation system for the duration of the ISYA.

IV - 1 - Expenses supported by ICSU/UNESCO income

ICSU/UNESCO financial support : 20000 USD

8000 USD were brought directly to Bucharest and the remaining was put at disposal through the banking system; in total 19805 USD were available, the bank charged 195 USD for the transfer.

13266 USD : travel, paid cash to foreign faculty members and foreign participants
2167 USD : travel, paid cash to Visit Romania S.A. (pre-paid airplane tickets)
147 USD : travel, paid cash to Romanian participants
1762 USD : local transportation, paid cash to Condor Agency
300 USD : computing hardware and hardware for experiments, paid cash to the LOC (M. Rusu)
385 USD : gasoline for transfer to the airport by private car; telephone, fax expenses; paid cash to the LOC (M. Rusu)

Total cost : 18027 USD.

Back to UAI : 1778 USD.

All the accounting for these expenses as well as the certifications of travel expenses are given in Annex.
IV - 2 - Expenses supported by local sources of income

Rooms and Meals : 3954 USD
Miscellaneous (T-Shirt of the Eclipse-day, photocopies, etc...) : 1094 USD

Total : 5048 USD

The above amount represents only for what has been directly paid by the LOC. Several expenses, such as the stay of the foreign faculty members at the University Hotel downtown, were directly paid by the Faculty of Physics or by the sponsors and are not budgeted here.

V - Conclusion

For the first time, an International School on Astrophysics was organized in Romania. The point of view of the Romanian faculty members involved in this ISYA, is that it was a success due to the fact that a common project was successfully realized on an international scale in connection with the Astronomical Institut of the Romanian Academy of Science. The long term feedback from the participants will be reviewed in five years from now.
The IAU organizers, the participants and the host institution expressed their thanks to UNESCO: without their help and label, organizing such a course with such an international audience would have been very difficult. UNESCO was mentioned in the documents distributed to the participants including the Certificate of attendance, and will be mentioned in the report published in the IAU Bulletin.
Several rounds of e-mail to participants led to a current e-mail address for 38 of the 41 participants. The review request asked for academic and job progress and ISYA influence thereupon; specific memorable subjects, lecturers, practical activities including eclipse; whether ISYA provided a broader outlook on science and useful English practice; quality of living and educational conditions and resulting later contacts with other participants; suggestions for improvements. We received a good response: Ten out of 18 foreign participants and ten out of 23 Romanian participants responded during March 2003. All the respondents valued the ISYA very highly. A high proportion is still active in astronomy/astrophysics.

PROGRESS of Foreign participants: nine of the ten are still active in astronomy/astrophysics.
1) One Algerian, who already had a PhD (signal processing) used ISYA for professional development to turn to astronomy. "I learn about helioseismology from students of Uzbekistan and I initiated later this project in my institute." (Algiers Observatory) "I have an optimistic view of the development of astronomy in Algeria ... I want to participate actively in this project and ... the ISYA has brought a great contribution in this attitude."
2) Seven of the ten expect PhD's (six of them in astronomy): The two Turkish participants will soon receive a PhD related to stellar spectra, having visited Saul Adelman in the USA for six months. The Uzbeki student expects a PhD on helioseismology within a year. The three Egyptians each expect to receive a PhD within a year. One Algerian is pursuing a PhD in seismology in France.
3) The two Vietnamese are still teaching university-level physics and astronomy, now with greater authority.

PROGRESS of Romanian participants:
Seven of the ten are still active in astronomy / astrophysics.
1) Seven of the ten had ten-month visits at the University and Observatory of Turin, Italy or the University and MPI Radioastronomie, Bonn, Germany. (Three of them credit the Erasmus program). Of these seven, five are now seeking the Ph.D in: USA (two at Univ. of Alabama, advisor J. Sulentic, one at Northeastern University, astrophysics), Holland (one officially at Nijmegen, actually working at Fermilab USA), Germany (one at MPI Aeronomie, solar). One is seeking the MSc in Osaka, Japan (x-ray astronomy), and one is researcher at the Astronomical Institute, Bucharest (gamma ray bursts, etc.).
2) In addition, one teaches mathematics and informatics in highschool in Bucharest and is registered for a binary-star PhD topic in the Faculty of Mathematics, Bucharest University; one is starting a PhD thesis on statistical physics in Paris; one seeks a Ph.D. at the Bucharest Institute for Physics and Nuclear Engineering (nuclear spectroscopy).

COMMUNICATION: Many of the Romanians (and even some foreigners) are still in e-mail communication with each other, in part due to four having been in Turin and three in Bonn. Noticeably they keep in contact with Bucharest University, apparently thanks to Prof. Rusu having created a real astronomical community within the Faculty of Physics of the University of
Bucharest (Assoc. of Amateur Astronomers), supported by the international activities activated by Magda Stavinschi (Bucharest Astronomical Inst.)

TEACHING: Several participants praised the teaching (unasked): “Experience new pedagogical methods”; “Teaching methodology was effective”; “Our teachers have presented their courses with great devotion and passion”; “I am impressed by Dr. Gerbaldi…” Several praised the role of the participants’ presentations. Only two mentioned the lecture notes as needed to compensate for slow English comprehension.

PRACTICAL ACTIVITIES: There was a large range of opinions of the practical activities, from complaints: “It was not well balanced between theory and practice”; “I think that the experimental work, even at the level of processing existing data, was the weak point of that summer school.”; and “It would have been interesting to have a connection to some teams doing “real” eclipse experiments.” to praise: “The practical activities were particularly helpful, … my first contact with the kind of work an astronomer does”; “The great benefit was the outlook on the experiments”; and “I believe that some of the student experiments led by Prof. Rusu during the solar eclipse yielded much more valuable results than some “professional experiments”. (He praises Prof. Rusu for preparing teaching experiments using ordinary things which anyone can find.)

INTERESTING REMARKS: 1) The broadening experience of ISYA was expressed in terms of: “The school put me in contact for the first time with ‘research-oriented people’; “…a closer look at the real world of science”. 2) “Mr. Guinan’s course determined me to make extrasolar planets the topic of my diploma paper.” For another student also, Guinan’s lectures led to his B.Sc. thesis. After ISYA, Guinan wrote a letter of recommendation for a student to participate at an Erice winter school, where she met her current German thesis advisor (P. Biermann). She wrote: ISYA “completely shaped my life”. ISYA was “the first time I heard about the dynamo mechanism in stars, now I have a paper on the large scale magnetic fields in the galaxy.” 3) Gerbaldi’s spectroscopy course ultimately led to a student’s working in nuclear spectroscopy. And it was the practical activities (including those that summer organized by Prof. Rusu) which led this student to decide to do some experimental physics. 4) One student wrote that “the Eclipse was the main event” as the experimental light curve figured in her Diploma thesis. 5) There were numerous comments similar to “ISYA is an important experience in my scientific life”; “will never forget the eclipse”.

24\textsuperscript{th} INTERNATIONAL SCHOOL FOR YOUNG ASTRONOMERS
July 26 – August 14, 1999, Bucharest, ROMANIA

PROGRAMME
24th INTERNATIONAL SCHOOL FOR YOUNG ASTRONOMERS

July 26 – August 14, 1999, Bucharest, ROMANIA

DIRECTOR:
Dr. Michèle GERBALDI
Institute d’Astrophysique
98 bis, Bd. Arago
F-75014 Paris, FRANCE
Fax: +0331 44 32 80 01
E-mail: gerbaldi@iap.fr

CO-DIRECTOR:
Dr. Magda STAVINSCHI
Director, Astronomical Institute of the Romanian Academy of Science
Str. Cuitul de Argint 5, RO-75212,
Bucharest 28, ROMANIA
Fax: +40 1 337 33 89
E-mail: magda@roastro.astro.ro

LOCATION:
Faculty of Physics, University of Bucharest
Bucharest – Magurele, RO 76900 Bucharest, P.O. Box MG-11
Phone: +40-1-7804770; +40-1-7805385
Organizers

ICSU/UNESCO

INTERNATIONAL ASTRONOMICAL UNION

ASTRONOMICAL INSTITUTE OF THE
ROMANIAN ACADEMY – BUCHAREST,
ROMANIA

FACULTY OF PHYSICS, UNIVERSITY OF
BUCHAREST
Local Organizing Committee

Mircea V. RUSU - ISYA Course Coordinator

Ion MUNTEANU - Vice-Rector, University of Bucharest

Voicu V. GRECU - Dean, Faculty of Physics

Florin POPESCU - Head of Atomic and Nuclear Physics Dept.

Elena BORCA - Faculty of Physics

Cornelia PALIVAN - Faculty of Physics

Horatiu PALIVAN - Faculty of Physics

Florin MARICA - Faculty of Physics

and

ASOCIATION OF AMATOR ASTRONOMERS FROM FACULTY OF PHYSICS, UNIVERSITY OF BUCHAREST
YOUR HOST

The Physics Faculty and the Atomic and Nuclear Physics Department have initiated immediately after 1989 a study direction with concrete perspectives for the future: the Astrophysics.

This new direction could be recognized also because our students have been candidates at the positions from the Astronomical Institute of the Bucharest Academy through the Doctoral Degrees from our country and abroad, where the professors from our Faculty have been Ph.D. supervisors or have took part from the commissions of examination. In the meantime, our students have won competitions for admissions for Master and Doctoral Degrees in Astrophysics abroad (Canada, France, United States), and recently in the SOCRATES/ERASMUS Program (1999-2000) we have students who are attending the Master Degree in Astrophysics in France, The Paris-Meudon Observatory and in Italy, Turin University and next year in Greece at the Athens University.

In the same time, at our Faculty have been invited professors, astrophysiciens worldwide known (United States, Australia, France, Germany, Italy) to keep conferences/courses for the students.

Since 1997, together with the Cultural Council of France Embassy in Romania, the Astronomical Institute and Faculty of Physics, we have organized courses for high level studies (for 8-10 days) at the faculty, with the students from the terminal years. This courses will continue also this academic year between 20 and 30 March.

In the period before the Solar Eclipse from 11th of August 1999, the Physics Faculty, together with the International Astronomical Union (IAU) and Astronomical Institute of the Romanian Academy organizes the "24th International School for Young Astronomer", which will contain lessons and practical activities for the students that are involved in Doctoral Degrees in Astronomy and Astrophysics and young researchers from all over the world.

The list of participants at this International School which will take place between July 26 and August 14, 1999 includes 50 students (from Russia, Uzbekistan, Turkey, Egypt, Maroc, Vietnam, Niger, Algeria and Romania) and 10 professors (from France, Italy, United States and Romania).
Teaching Team

Tatiana ANGELESCU, University of Bucharest, Romania

Attilio FERRARI, University of Turin, Italy

Michèle GERBALDI, University Paris XI, France

Edward GUINAN, University of Villanona, USA

Andrei IONESCU, University of Bucharest, Romania

Mircea RUSU, University of Bucharest, Romania

Magda STAVINSCHI, Astronomical Institute of the Romanian Academy of Science, Bucharest

Donat WENTZEL, University of Maryland, USA

Jean Paul ZAHN, Observatory of Paris, France

The lessons will be hold in the Hall A1, the practical classes on computers will be hold in the Computer Room and the astronomical studies will be hold in the Astrophysics Laboratory.
PROGRAMME

MONDAY, JULY 26, 1999

09:00 - 10:30  Registration
10:30 - 11:00  Coffee break
11:00 - 12:30 Opening Session
13:00 -14:15  Lunch
14:30 - 16:00 D. Wentzel
  *The Sun with an Emphasis on the Role of the Magnetic Field in the Atmosphere (1)*
16:00 - 16:30  Coffee break
16:30 - 18.00  Presentation. Organization
19:00  Dinner

THURSDAY, JULY 27, 1999

08:00 - 9:00  Breakfast
09:00 - 10:30 D. Wentzel
  *The Sun with an Emphasis on the Role of the Magnetic Field in the Atmosphere (2)*
10:30 - 11:00  Coffee break
11:00 - 12:30 E. Guinan
  *Eclipses and occultation from the Sun to the Stars; eclipsing binary stars as astrophysical laboratories; exosolar planets (1)*
13:00 -14:15  Lunch
14:30 - 16:00  M. Gerbaldi  
*Stellar astrophysics: why the stellar observations, tools for the interpretation of the observations, link between observations and theory (1)*

16:00 - 16:30  Coffee break

16:30 - 18:00  *Exercises*

19:00  Dinner

**WEDNESDAY, JULY 28, 1999**

08:00 - 9:00  Breakfast

09:00 - 10:30  E. Guinan  
*Eclipses and occultation from the Sun to the Stars; eclipsing binary stars as astrophysical laboratories; exosolar planets (2)*

10:30 - 11:00  Coffee break

11:00 - 12:30  *Participants talk (1)*

13:00 -14:15  Lunch

14:30 - 16:00  M. Rusu  
*Chaos in physics and astrophysics, fractal structure of the universe (1)*

16:00 - 16:30  Coffee break

16:30 - 18:00  *Exercises*

19:00  Dinner
THURSDAY, JULY 29, 1999

08:00 - 9:00  Breakfast

09:00 - 10:30  M. Rusu
   *Chaos in physics and astrophysics, fractal structure of the universe (2)*

10:30 - 11:00  Coffee break

11:00 - 12:30  M. Stavinschi
   *Astronomy: the time, mechanism of the solar eclipses (1)*

13:00 - 14:15  Lunch

14:30 - 16:00  D. Wentzel
   *The Sun with an Emphasis on the Role of the Magnetic Field in the Atmosphere (3)*

16:00 - 16:30  Coffee break

16:30 - 18:00  *Exercises*

19:00  Dinner

FRIDAY, JULY 30, 1999

08:00 - 9:00  Breakfast

09:00 - 10:30  E. Guinan
   *Eclipses and occultation from the Sun to the Stars; eclipsing binary stars as astrophysical laboratories; exosolar planets (3)*

10:30 - 11:00  Coffee break

11:00 - 12:30  M. Gerbaldi
   *Stellar astrophysics: why the stellar observations, tools for the interpretation of the observations, link between observations and theory (2)*
13:00 - 14:15  Lunch

14:30 - 16:00  M. Stavinschi  
*Astronomy: the time, mechanism of the solar eclipses (2)*

16:00 - 16:30  Coffee break

16:30 - 18:00  *Visit of the Observatory of Bucharest*

19:00  Dinner

**SATURDAY, JULY 31, 1999**

08:00 - 9:00  Breakfast

09:00 - 10:30  PT2

10:30 - 11:00  Coffee break

11:00 - 12:30  *Participants talk (2)*

13:00 - 14:15  Lunch

14:00 - 18:00  *Visit of Bucharest*
SUNDAY, AUGUST 1, 1999

Visit Sinaia and Peles Castle (all day)

MONDAY, AUGUST 2, 1999

08:00 - 9:00  Breakfast

09:00 - 10:30  D. Wentzel  
*The Sun with an Emphasis on the Role of the Magnetic Field in the Atmosphere* (4)

10:30 - 11:00  Coffee break

11:00 - 12:30  M. Rusu  
*Chaos in physics and astrophysics, fractal structure of the universe* (3)

13:00 - 14:15  Lunch
14:30 - 16:00
A. Ferrari
*Galaxies, active galaxies, extragalactic jets, active galactic nuclei (1)*

16:00 - 16:30
Coffee break

16:30 - 18:00
*Participants talk (3)*

19:00
Dinner

**THURSDAY, AUGUST 3, 1999**

08:00 - 9:00
Breakfast

09:00 - 10:30
M. Gerbaldi
*Stellar astrophysics: why the stellar observations, tools for the interpretation of the observations, link between observations and theory (4)*

10:30 - 11:00
Coffee break

11:00 - 12:30
A. Ferrari
*Galaxies, active galaxies, extragalactic jets, active galactic nuclei (2)*

13:00 - 14:15
Lunch

14:30 - 16:00
T. Angelescu
*Astrophysics and the physics of elementary particles; neutrinos, quantum cosmology (1)*

16:00 - 16:30
Coffee break

16:30 - 18:00
*Participants talk (4)*

19:00
Dinner
WEDNESDAY, AUGUST 4, 1999

08:00 - 9:00  Breakfast

09:00 - 10:30 M. Gerbaldi  
*Stellar astrophysics: why the stellar observations, tools for the interpretation of the observations, link between observations and theory (5)*

10:30 - 11:00 Coffee break

11:00 - 12:30 T. Angelescu  
*Astrophysics and the physics of elementary particles; neutrinos, quantum cosmology (2)*

13:00 - 14:15 Lunch

14:30 - 16:00 E. Guinan  
*Eclipses and occultation from the Sun to the Stars; eclipsing binary stars as astrophysical laboratories; exosolar planets (4)*

16:00 - 16:30 Coffee break

16:30 - 18:00  *Participants talk (5)*

19:00 Dinner

THURSDAY, AUGUST 5, 1999

08:00 - 9:00  Breakfast

09:00 - 10:30 D. Wentzel  
*The Sun with an Emphasis on the Role of the Magnetic Field in the Atmosphere (5)*

10:30 - 11:00 Coffee break

11:00 - 12:30 E. Guinan
Eclipses and occultation from the Sun to the Stars; eclipsing binary stars as astrophysical laboratories; exosolar planets (5)

13:00 - 14:15
Lunch

14:30 - 16:00
A. Ferrari
*Galaxies, active galaxies, extragalactic jets, active galactic nuclei* (3)

16:00 - 16:30
Coffee break

16:30 - 18.00
*Discussion in Astrophysics Laboratory*

19:00
Dinner

FRIDAY, AUGUST 6, 1999

08:00 - 9:00
Breakfast

09:00 - 10:30
M. Gerbaldi
*Stellar astrophysics: why the stellar observations, tools for the interpretation of the observations, link between observations and theory* (6)

10:30 - 11:00
Coffee break

11:00 - 12:30
A. Ferrari
*Galaxies, active galaxies, extragalactic jets, active galactic nuclei* (4)

13:00 -14:15
Lunch

14:30 - 16:00
T. Angelescu
*Astrophysics and the physics of elementary particles; neutrinos, quantum cosmology* (3)

16:00 - 16:30
Coffee break

16:30 - 18.00
*Participants talk* (6)
19:00  Dinner

SATURDAY, AUGUST 7, 1999

08:00 - 9:00  Breakfast

09:00 - 10:30  A. Ferrari
   Galaxies, active galaxies, extragalactic jets, active galactic nuclei (5)

10:30 - 11:00  Coffee break

11:00 - 12:30  E. Guinan
   Eclipses and occultation from the Sun to the Stars; eclipsing binary stars as astrophysical laboratories; exosolar planets (6)

13:00 -14:15  Lunch

14:30 - 18:00  Visit of the Village Museum
SUNDAY, AUGUST 8, 1999

Visit of an historical town in the South of Romania - Curtea de Arges (all day)

MONDAY, AUGUST 9, 1999

08:00 - 9:00  Breakfast

09:00 - 10:30  D. Wentzel
The Sun with an Emphasis on the Role of the Magnetic Field in the Atmosphere (6)

10:30 - 11:00  Coffee break

11:00 - 12:30  A. Ferrari
Galaxies, active galaxies, extragalactic jets, active galactic nuclei (6)

13:00 - 14:15  Lunch
16:00 - 18:00  R. Passachoff  
(Invited lecture at NATO workshop - Astronomic Institute of the Romanian Academy)

19:00  Dinner

THURSDAY, AUGUST 10, 1999

08:00 - 9:00  Breakfast

09:00 - 10:30  J.P. Zahn  
Internal structure of the Sun (1)

10:30 - 11:00  Coffee break

11:00 - 12:30  A. Ionescu  
Planetary atmosphere: the interaction in the high atmosphere with the solar and cosmic radiation (1)

13:00 - 14:15  Lunch

14:30 - 16:00  Discussion

16:00 - 16:30  Coffee break

16:30 - 18:00  Participants talk (7)

19:00  Dinner
THURSDAY, AUGUST 12, 1999

08:00 - 9:00  Breakfast
09:00 - 10:30  J.P. Zahn  
*Internal structure of the Sun (2)*
10:30 - 11:00  Coffee break
11:00 - 12:30  A. Ionescu  
*Planetary atmosphere: the interaction in the high atmosphere with the solar and cosmic radiation (2)*
13:00 - 14:15  Lunch
14:30 - 18:00  P. Heintzel  
*(Invited lecture at NATO workshop - Astronomic Institute of the Romanian Academy)*
19:00  Dinner

FRIDAY, AUGUST 13, 1999

08:00 - 9:00  Breakfast
09:00 - 10:30  J. P. Zahn  
*Internal structure of the Sun (3)*
10:30 - 11:00  Coffee break
11:00 - 12:30  A. Ionescu  
*Planetary atmosphere: the interaction in the high atmosphere with the solar and cosmic radiation (3)*
13:00 - 14:15  Lunch
14:30 - 16:00  *Participants talk (8)*
16:00 - 16:30  Coffee break
16:30 - 18.00  
*Teaching of Astronomy*

19:00  
Dinner

**SATURDAY, AUGUST 14, 1999**

08:00 - 9:00  
Breakfast

09:00 - 10:00  
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10:00 - 11:30  
*Closing Session*

13:00 - 14:15  
Lunch

**SUNDAY, AUGUST 15, 1999**

*Departure*
<table>
<thead>
<tr>
<th>Name</th>
<th>Full postal address (office)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Participants</strong></td>
<td></td>
</tr>
<tr>
<td>1   Michèle GEBALDI</td>
<td>Institut d’Astrophysique</td>
</tr>
<tr>
<td>FRANCE</td>
<td>98bis Bd. Arago</td>
</tr>
<tr>
<td><a href="mailto:gerbaldi@iap.fr">gerbaldi@iap.fr</a></td>
<td>75014 Paris</td>
</tr>
<tr>
<td>FRANCE</td>
<td></td>
</tr>
<tr>
<td>2   Edward Francis GUINAN</td>
<td>Astronomy &amp; Astrophysics</td>
</tr>
<tr>
<td>USA</td>
<td>Villanova University</td>
</tr>
<tr>
<td><a href="mailto:guinan@ucis.vill.edu">guinan@ucis.vill.edu</a></td>
<td>Villanova, PA 19085</td>
</tr>
<tr>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>3   Donat WENTZEL</td>
<td>Dept. of Astronomy</td>
</tr>
<tr>
<td>USA</td>
<td>University of Maryland</td>
</tr>
<tr>
<td><a href="mailto:wentzel@astro.umd.edu">wentzel@astro.umd.edu</a></td>
<td>College Park MD 20742</td>
</tr>
<tr>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>4   Attilio FERRARI</td>
<td>Osservatorio Astronomico Di Torino</td>
</tr>
<tr>
<td>ITALIA</td>
<td>Strada Osservatorio</td>
</tr>
<tr>
<td><a href="mailto:ferrari@to.astro.it">ferrari@to.astro.it</a></td>
<td>I - 10025 Pina Torinese</td>
</tr>
<tr>
<td><a href="mailto:ferrari@ph.unibo.it">ferrari@ph.unibo.it</a></td>
<td>Italy</td>
</tr>
<tr>
<td>fax: 39-011-8101930; phone:39-011-8101900</td>
<td></td>
</tr>
<tr>
<td>5   Magda STAVINSKI</td>
<td>Astronomical Institute of the Romanian Academy of Science</td>
</tr>
<tr>
<td>ROMANIA</td>
<td>Str. Cuitul de Argint 5, RO-75212, Bucharest 28,</td>
</tr>
<tr>
<td><a href="mailto:magda@roastro.astro.ro">magda@roastro.astro.ro</a></td>
<td>Fax: +40 1 337 33 89</td>
</tr>
<tr>
<td>6   Tatiana ANGELESCU</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td>ROMANIA</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td>ROMANIA</td>
<td>Dept. of Atomic &amp; Nuclear Phys.</td>
</tr>
<tr>
<td>ROMANIA</td>
<td>P.O. Box MG-11; ROMANIA</td>
</tr>
<tr>
<td>7   Mircea RUSU</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td>ROMANIA</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td><a href="mailto:mrusu@megagit.ro">mrusu@megagit.ro</a></td>
<td>Dept. of Atomic &amp; Nuclear Phys.</td>
</tr>
<tr>
<td><a href="mailto:mrusu@olimp.fiz.infn.ro">mrusu@olimp.fiz.infn.ro</a></td>
<td>P.O. Box MG-11; ROMANIA</td>
</tr>
<tr>
<td>8   Andrei IONESCU</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td>ROMANIA</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td>ROMANIA</td>
<td>Dept. of Atomic &amp; Nuclear Phys.</td>
</tr>
<tr>
<td>ROMANIA</td>
<td>P.O. Box MG-11; ROMANIA</td>
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<thead>
<tr>
<th>Name</th>
<th>Full postal address (home)</th>
<th>Full postal address (organisation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1   Nassim SEGHOUANI</td>
<td>Cite des Sources, Bt 6 N 11 BIRMOURADRAIS</td>
<td>Departement Astronomie - Astrophysique C.R.A.A.G</td>
</tr>
<tr>
<td>ALGERIA</td>
<td>ALGER 16000</td>
<td>BP 63 BOUZAREAH, 16340</td>
</tr>
<tr>
<td><a href="mailto:nseghouani@yahoo.com">nseghouani@yahoo.com</a></td>
<td>ALGERIA</td>
<td>ALGER, ALGERIE</td>
</tr>
<tr>
<td>2   Fathi SEMMANE</td>
<td>18 Boulevard Amirouche 16000, ALGER</td>
<td>Departement Astronomie - Astrophysique C.R.A.A.G</td>
</tr>
<tr>
<td>ALGERIA</td>
<td>ALGERIA</td>
<td>BP 63 BOUZAREAH, 16340</td>
</tr>
<tr>
<td><a href="mailto:fsemm@hotmail.com">fsemm@hotmail.com</a></td>
<td>ALGER, ALGERIE</td>
<td>ALGER, ALGERIE</td>
</tr>
<tr>
<td><a href="mailto:sem@altavista.net">sem@altavista.net</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 3   Magda Moheb El-Dine HUSSEIN | 12 El Shahid Hassan Salleh Street flat n 5, Dr: Assem-Thanwat Madkour Giza | Solar Department, International Institute for A
<p>|    EGYPT                      | CAIRO                                               | Astronomical and Geophysical Research                               |
|    <a href="mailto:Hussein-Magda@mailcity.com">Hussein-Magda@mailcity.com</a>|                                                     | HELWAN                                                             |
|                               |                                                     | CAIRO, EGYPT                                                       |</p>
<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Country</th>
<th>Address</th>
<th>Department/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Maha Salah QUASSIM</td>
<td>EGYPT</td>
<td>16-22 St tagSIM ENASR-WADI HOF - HELWAN CAIRO</td>
<td>Solar and Space Department, International Institut for Astronomy and Geophysics HELWAN Observatory HELWAN, CAIRO, EGYPT</td>
</tr>
<tr>
<td>5</td>
<td>Amaal YOUSESF</td>
<td>EGYPT</td>
<td>9-Salah El-deen Street from El-Salam Street Imbeba - Elkeet kat GIIA</td>
<td>Solar Department, International Institut for Astronomical and Geophysical Researches HELWAN CAIRO, EGYPT</td>
</tr>
<tr>
<td>6</td>
<td>Salama LAAROUSSI</td>
<td>MAROC</td>
<td>Cite Universitaire I BP 8051 OASIS CASABLANCA, 20350 MOROCCO</td>
<td>Universite HASSAN II Faculte des Sciences- AIN Chock - Department de Physique, CASABLANCA MARIF MAROC</td>
</tr>
<tr>
<td>7</td>
<td>Racid RAHMOUNE</td>
<td>MAROC</td>
<td>Raid El Ali rue 10 n. 5 20550 CASABLANCA MOROCCO</td>
<td>Universite HASSAN II Faculte des Sciences I - Department de Physique, CASABLANCA MARIF MAROC</td>
</tr>
<tr>
<td>8</td>
<td>Elena BELYAKOVA</td>
<td>RUSSIA</td>
<td>Zorge Str. 113-109 ITAZAN 420139</td>
<td>Department of Astronomy Kazan State University Kremlevskaya Str. 18 420008 KAZAN; RUSSIA</td>
</tr>
<tr>
<td>9</td>
<td>Diana IVANOVA</td>
<td>RUSSIA</td>
<td>Ibragimova Str., 77-28 Kazan 420066</td>
<td>Department of Astronomy Kazan State University Kremlevskaya Str. 18 420008 KAZAN; RUSSIA</td>
</tr>
<tr>
<td>10</td>
<td>Vadim JIGALOV</td>
<td>RUSSIA</td>
<td>P.O. BOX 4026 IRKUTSK, 664033</td>
<td>Institut of Solar - Terrestrial Physics P. O. BOX 4026 IRKUTSK, 664033; RUSSIA</td>
</tr>
<tr>
<td>11</td>
<td>Mehmet Taskin CAY</td>
<td>TURKEY</td>
<td>Cevdet pasa C. Bucaks. n. 6 Fındıkzade ISTAMBUL, 34300 TURKEY</td>
<td>Astronomy Department University of Istanbul Faculty of Science 34452 - University/Istanbul TURKEY</td>
</tr>
<tr>
<td>12</td>
<td>Ipek HAMAMI</td>
<td>TURKEY</td>
<td>Semsettin Gunaltay C. Gürsoyulu S. N. 43/19 ERENKOY ISTANBUL, 81080 TURKEY</td>
<td>Astronomy Department University of Istanbul Faculty of Science 34452 - University/Istanbul TURKEY</td>
</tr>
<tr>
<td>13</td>
<td>Olga BURTSEVA</td>
<td>UZBEKISTAN</td>
<td>700198, Uzbekistan, Tashkent, massiv Kuyluq - 2 - 10 - 31</td>
<td>Astronomical Institute Yanus - Abad district Astronomical Streer, 33 TASHKENT, 700052 UZBEKISTAN, C.I.S.</td>
</tr>
<tr>
<td>15</td>
<td>Tatyana SADIBEKOVA</td>
<td>UZBEKISTAN</td>
<td>700000 Pushkin Str. n. 77/78 Tashkent, Uzbekistan</td>
<td>Astronomical Institute Yanus - Abad district Astronomical Streer, 33 TASHKENT, 700052 UZBEKISTAN, C.I.S.</td>
</tr>
</tbody>
</table>
| 16  | MINH Nguyen Thi Phương  
     | VIETNAM  
     | thdung@dng.vnn.vn  
     | 190 Le Loi Str.  
     | Quy Nhon City  
     | BINH DINH  
     | VIETNAM  
     | Department of Physics  
     | Quy Nhon Pedagogic University  
     | 170 An Doug Young Str.  
     | QUYNHON- BINH DINH  
     | VIETNAM  
     | 17  | HA Trần Quốc  
     | VIETNAM  
     | spvarly@ttinet.com.vn  
     | T/P HOCHIMINH  
     | 466 Nguyen Tri Phung  
     | P9 Q5  
     | VIETNAM  
     | National University of Ho CHI Minh City, Pedagogical Institute-Dept. of Physics, Khoa ly - DHSP-280 An Doug Young Q5 - HCMC- VIETNAM  
     | 18  | OKPALA Kingsley  
     | NIGERIA  
     | okpalak@infoweb.abs.net  
     | PO BOX 5549  
     | Festac Town  
     | LAGOS  
     | NIGERIA  
     | 23rd W-Close, Block 6, Flat 16  
     | PO BOX 5549  
     | Festac town, Lagos  
     | NIGERIA  
     | 19  | ANASTASOAEI Miruna  
     | ROMANIA  
     | mirunaag@hotmail.com  
     | B-dul Iuliu Maniu nr. 13D  
     | Bl. D6, Et. 2, Ap. 25, sector 6  
     | BUCURESTI  
     | University of Bucharest  
     | Faculty of Physics  
     | P.O.Box MG-11; ROMANIA  
     | 20  | CHIRVASA Mihaela  
     | ROMANIA  
     | mchirvasa@yahoo.com  
     | Str. General Milea Nr. 2  
     | Bl. D1, Sc. 5 et. 2 Ap. 11  
     | Barlad, Jud. Vaslui cod 6400  
     | University of Bucharest  
     | Faculty of Physics  
     | P.O.Box MG-11; ROMANIA  
     | 21  | CONSTANTIN Rodica  
     | ROMANIA  
     | cdiara55@hotmail.com  
     | mihaielgh@u3.ici.ro  
     | Str. Reconstructiei nr. 2  
     | Bl. 26, ap. 101, sector 3  
     | Bucuresti  
     | cod 7000  
     | University of Bucharest  
     | Faculty of Mathematics  
     | Dept. Mecanics-Astronomy  
     | Strada Academiei nr. 14  
     | sector 1, cod RO-70109  
     | ROMANIA  
     | 22  | DURBALA Adriana  
     | ROMANIA  
     | durbalaa@yahoo.com  
     | adurbala@hotmail.com  
     | Str. I. L. Caragiale nr. 53 Bl.  
     | G2  
     | Ap. 20 Constanța, 8700  
     | Jud. Constanța  
     | University of Bucharest  
     | Faculty of Physics  
     | P.O.Box MG-11  
     | ROMANIA  
     | 23  | GALEA Cristina  
     | ROMANIA  
     | gal@phobos.cs.unibuc.ro  
     | Str. Stradonitei nr. 10 Bl. R  
     | 20  
     | Sc. A, Et. 7, Ap. 31  
     | Bucuresti  
     | University of Bucharest  
     | Faculty of Physics  
     | P.O.Box MG-11  
     | ROMANIA  
     | 24  | GEARBA Ioana  
     | ROMANIA  
     | raluca_ketty@hotmail.com  
     | com. Viperesti  
     | Jud. Buzău  
     | cod 5191  
     | University of Bucharest  
     | Faculty of Physics  
     | P.O.Box MG-11; ROMANIA  
     | 25  | MIERLA Marilena  
     | ROMANIA  
     | miconda@ulise.cs.pub.ro  
     | m_mierla@hotmail.com  
     | com. Turburea  
     | Jud. Gorj  
     | cod 1327  
     | University of Bucharest  
     | Faculty of Physics  
     | P.O.Box MG-11; ROMANIA  
     | 26  | NEGREANU Rodica  
     | ROMANIA  
     | r_rodica@hotmail.com  
     | Str. 13 Septembrie nr. 97  
     | Bl. 93 et. 5 ap. 20  
     | sector 5; Bucuresti  
     | University of Bucharest  
     | Faculty of Physics  
     | P.O.Box MG-11; ROMANIA  
     | 27  | NEMES Norbert  
     | ROMANIA  
     | norastro@yahoo.com  
     | norad79@yahoo.com  
     | Str. N. Titulescu nr. 48,  
     | Sighetu Marmatiei, Jud.  
     | Maramures  
     | cod 4925  
     | Babes Bolyai University  
     | Faculty of Mathematics and Informatics  
     | Str. Kogalniceanu nr. 1 Cluj - Napoca 3400; ROMANIA  
     | 28  | NICOLAE Adriana  
     | ROMANIA  
     | adasori@hotmail.com  
     | Alea Calinesti nr. 1  
     | Bl. 81 Sc. 5, et. 4, ap. 50  
     | sector 4 Bucuresti  
     | cod 75300  
     | University of Bucharest  
     | Faculty of Mathematics  
     | c/o Prof. Ieronim Mihaila  
     | Dept. Mecanics-Astronomy  
     | Strada Academiei nr. 14  
     | sector 1, cod RO-70109  
     | ROMANIA  
<pre><code> |
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<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Address</th>
<th>Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>ORLANDEA Marius-Ciprian</td>
<td>Str. Horia nr. 29A  AGNITA, Jud. SIBIU</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>AGNITA, Jud. SIBIU</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:OMC007@hotmail.com">OMC007@hotmail.com</a></td>
<td>cod 2475</td>
<td>P.O.Box MG-11; ROMANIA</td>
</tr>
<tr>
<td>30</td>
<td>POPESCU Adrian</td>
<td>Alea Parva nr. 9, Bl. D18, Sc. F</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>Et. 3, Ap. 58, sector 6</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:luci@kronos.ipa.ro">luci@kronos.ipa.ro</a></td>
<td>Bucuresti cod 77429</td>
<td>P.O.Box MG-11; ROMANIA</td>
</tr>
<tr>
<td>31</td>
<td>POPOVICI Bogdan</td>
<td>University of Bucharest</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>Faculty of Physics</td>
<td></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:popobog@hotmail.com">popobog@hotmail.com</a></td>
<td>P.O.Box MG-11; ROMANIA</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>SAVIN Mihaela</td>
<td>Bd. Alexandru Obrejan nr. 8</td>
<td>Research Institute of Informatics</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>Bl. OD 2, sc. 1, ap. 25</td>
<td>Lab. GeMaSOFT 2.24</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:nsavin68@hotmail.com">nsavin68@hotmail.com</a></td>
<td>sector 4</td>
<td>8-10 Averescu Avenue</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:mihaeilgh@u3.ici.ro">mihaeilgh@u3.ici.ro</a></td>
<td>Bucuresti</td>
<td>71316, Bucharest 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>cod 75571</td>
<td>ROMANIA</td>
</tr>
<tr>
<td>33</td>
<td>SULIMAN Gabriel</td>
<td>Str. Independentei nr. 6</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>Bl. G10 sc. c ap. 37</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:sulgabi@yahoo.com">sulgabi@yahoo.com</a></td>
<td>Piatra Neamt cod 5600</td>
<td>P.O.Box MG-11; ROMANIA</td>
</tr>
<tr>
<td>34</td>
<td>SUTAC Victor</td>
<td>Str. Oituz nr. 21 Bl. o2 sc. A</td>
<td>Planetariul Suceava</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>Ap. 20</td>
<td>Str. Universitatii nr 13A</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:vsutac@pc.svnet.ro">vsutac@pc.svnet.ro</a></td>
<td>Suceava cod 5800</td>
<td>Suceava; ROMANIA</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:obsvsy@eod.usv.ro">obsvsy@eod.usv.ro</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>TASCAU Oana Florina</td>
<td>Alea Cupidon Bl. 57 Ap. 56</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>sc. B, micro IX, TARGOVISTE</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:andorada@yahoo.com">andorada@yahoo.com</a></td>
<td></td>
<td>P.O.Box MG-11; ROMANIA</td>
</tr>
<tr>
<td>36</td>
<td>TANASE-NICOLA Sorin</td>
<td>Str. Prelungirea Primaverii</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>nr. 28</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:stana1s10@hotmail.com">stana1s10@hotmail.com</a></td>
<td>Bl. 9, Sc. B, Ap. 9</td>
<td>P.O.Box MG-11; ROMANIA</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:nicolat@dmt.ro">nicolat@dmt.ro</a></td>
<td>Slatina</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OLT</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>TANASE Adrian</td>
<td>Str. Republicii 75</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>Bl. 27 Sc. B., Ap. 18</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:adrian-tanasa@hotmail.com">adrian-tanasa@hotmail.com</a></td>
<td>2165 Breaza</td>
<td>P.O.Box MG-11; ROMANIA</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:adin@ns.syfed.ro">adin@ns.syfed.ro</a></td>
<td>Jud. Prahova</td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>TUDOSE Valeriu</td>
<td>Alea Compozitorilor nr. 13</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>Bl. ODS Ap. 43</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:tudosev@yahoo.com">tudosev@yahoo.com</a></td>
<td>sector 6, Bucuresti</td>
<td>P.O.Box MG-11; ROMANIA</td>
</tr>
<tr>
<td>39</td>
<td>VLADESCU Madalina</td>
<td>Bdul Victoriei</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>Bl. A1, Sc. B, Ap. 27</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:eugenique@hotmail.com">eugenique@hotmail.com</a></td>
<td>cod 0200, TARGOVISTE</td>
<td>P.O.Box MG-11; ROMANIA</td>
</tr>
<tr>
<td>40</td>
<td>ZAMFIR Sebastian</td>
<td>Str. Alea Trandafirilor Bl. 14</td>
<td>University of Bucharest</td>
</tr>
<tr>
<td></td>
<td>ROMANIA</td>
<td>Sc. c, Et. 3, Ap. 56</td>
<td>Faculty of Physics</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:zamfirs@yahoo.com">zamfirs@yahoo.com</a></td>
<td>TARGOVISTE, cod 0200</td>
<td>P.O.Box MG-11; ROMANIA</td>
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<tr>
<td></td>
<td>Name</td>
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</tr>
<tr>
<td>1</td>
<td>Mircea RUSU</td>
<td><a href="mailto:mrusu@meganet.ro">mrusu@meganet.ro</a></td>
<td>ROMANIA</td>
</tr>
<tr>
<td>2</td>
<td>Ion Munteanu</td>
<td></td>
<td>ROMANIA</td>
</tr>
<tr>
<td>3</td>
<td>BORCA Elena</td>
<td><a href="mailto:borca@barutu.fizica.unibuc.ro">borca@barutu.fizica.unibuc.ro</a></td>
<td>ROMANIA</td>
</tr>
<tr>
<td>4</td>
<td>GRECU Voicu</td>
<td><a href="mailto:vvgrecu@olimp.fizica.unibuc.ro">vvgrecu@olimp.fizica.unibuc.ro</a></td>
<td>ROMANIA</td>
</tr>
<tr>
<td>5</td>
<td>MARICA Florin</td>
<td><a href="mailto:f.marica@olimp.fizica.unibuc.ro">f.marica@olimp.fizica.unibuc.ro</a></td>
<td>ROMANIA</td>
</tr>
<tr>
<td>6</td>
<td>PALIVAN Cornelia</td>
<td><a href="mailto:cpalivan@olimp.fizica.unibuc.ro">cpalivan@olimp.fizica.unibuc.ro</a></td>
<td>ROMANIA</td>
</tr>
<tr>
<td>7</td>
<td>PALIVAN Horatiu</td>
<td><a href="mailto:hpalivan@olimp.fizica.unibuc.ro">hpalivan@olimp.fizica.unibuc.ro</a></td>
<td>ROMANIA</td>
</tr>
<tr>
<td>8</td>
<td>POPESTCU Florin</td>
<td><a href="mailto:popf@scut.fizica.unibuc.ro">popf@scut.fizica.unibuc.ro</a></td>
<td>ROMANIA</td>
</tr>
</tbody>
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Coca-Cola BUCURESTI SRL
Bucuresti, Str. Preciziei, Nr. 10, Sector 6
Tel. 760 20 04, 220 64 38, Fax 312 97 50

Regia Autonoma "LOTERIA NATIONALA"
Calea Victoriei No.9, sect. 3, Bucharest, Romania

Institute of Atomic Physics Bucharest
Bucharest-Magurele, Romania

National Institute for Physics and Nuclear Engineering
Bucharest-Magurele, P.O.Box MG-6, Ro76900 Bucharest,

Clubul turistic ecologic MONT-DELT-MAR
Bucuresti, Str. Moinesti nr.18, bl.14, sc.1, ap.5 sect.6
tel.0040 1 760.44.10

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