Dear Colleague

The opening day of NUCLEI IN THE COSMOS V is close now. More than 150 participants have already registered and we are looking forward to a very successful conference.

Please, read carefully the following instructions concerning: (1) transportation; (2) registration; (3) the scientific programme; (4) proceedings; and (5) social events and accompanying persons; make the appropriate arrangements as soon as possible, especially concerning point (1).

1. TRANSPORTATION

Volos is located about 300 km to the north of Athens or 200 km to the south of Thessaloniki, the two cities with the nearest airports. The Organising Committee will provide transportation by buses from the airports of Athens and Thessaloniki to Volos on Sunday, July 5. Notice that this is the first week-end of July and most Europeans start their holidays at that period. It is therefore highly recommended that you make travel arrangements and reservations as soon as possible, and inform the Local Organizing Committee about your arrival (time, airport, flight), by e-mail to: cosmos98@cyclades.ncps.ariadne-t.gr

From the information we have up to now on your arrivals, the following tentative schedule has been established (based on data concerning ~40% of the arrivals; any modifications - on the basis of further information - will be notified in time).

- **Bus from Thessaloniki airport to Volos:**
  - One bus leaving at 18:30

- **Bus from Athens airport (East Terminal) to Volos:**
  - One bus leaving at 14:00
  - One bus leaving at 16:30
  - One bus leaving at 19:00

Notice that the airport of Athens has two terminals: West (exclusively for OLYMPIC AIRWAYS) and East (all other companies). Since all announced arrivals are in the East airport, buses will leave from there; if somebody arrives with OLYMPIC AIRWAYS, please let us know.

Those arriving after 6 p.m. on Sunday July 5, may either
- Rent a car in the airport and come to Volos
- Take a taxi and get to the Bus Station to Volos, located downtown Athens or Thessaloniki (about 8 US $ in the case of Athens and 5 US $ in the case of Thessaloniki); the Bus Station is at TRIS GEPIRES in Athens and at PLATEIA VARDARI in Thessaloniki. Buses to Volos run approximately every 2 hours from Athens and every 3 hours from Thessaloniki and the trip lasts 4h30min and 3h, respectively; bus tickets to Volos cost about 20 US $ from Athens and 12 US $ from Thessaloniki. Once in Volos, you may get a taxi from the Bus Station to the hotels (about 4 US $)
- Take a taxi from the airports to Volos (interesting only in the case of 3-person groups; a global price for the trip should then be arranged with the taxi driver, that should not exceed 130 US $ from Athens or 80 US $ from Thessaloniki...).

Those arriving before Sunday 5 may either
- go directly to Volos in one of the ways above, or
- stay in a hotel in Athens and go to the East terminal to get one of the buses on Sunday (some tel. numbers of hotels down-town Athens: Myrto: 30 1 322 7237; Plaka: 30 1 322 2096; Omiros: 30 1 323 5486; Achilleas: 30 1 323 3197. Notice that no special agreement of those hotels with the LOC of NiC98 has been made!).
Obviously, the most convenient thing to do is to arrive at the airports on Sunday 5, before 6 p.m. and get the bus provided by the LOC. A similar situation holds for the trip from Volos to the airports: buses will leave early in the morning of Sunday 12. Again, make reservations as soon as possible and inform the LOC about your schedule and/or any problem you may have.

2. REGISTRATION

The Registration Fee is 150 US $ and includes:

- Lunches and Coffee Breaks
- A volume of the Proceedings
- Social events (Welcome Cocktail and the Symposium Dinner)
- An excursion to Meteora (see below).
- Bus transportation from the airports to Volos on Sunday 5 (and from Volos to the airports on Sunday 12), as indicated in item 1 above.

The fee will be paid in cash, either in US $ or in Greek drachmas (current equivalence: 1 $ = 300 drs). The LOC cannot accept credit cards, traveller’s checks or checks, and we apologise for that inconvenience. Major credit cards (VISA, Master Card, American Express etc.) can be used in Volos for shopping, hotel bills and to withdraw cash (drs !) from automatic machines.

An early registration will take place in the evening of Sunday 5, from 20:00 to 21:30 in the hall of PARK hotel. Registration will also take place in the building of the University of Thessaly (in front of the Conference Room) in the morning of Monday 6, from 8:30 to 9:00. The registration desk will be open daily, from 8:30 to 13:00.

3. SCIENTIFIC PROGRAMME AND FACILITIES

The Symposium will take place in the Conference Room of the University of Thessaly, at walking distance from the hotels (1 min from PARK and 10 min from XENIA).

The Programme of the Symposium has been established by the Scientific Organising Committee on the basis of the submitted abstracts and in the spirit of covering in a balanced way all sub-fields of Nuclear Astrophysics (see attached programme). A Round Table followed by a general discussion will take place in the Closing Session, summarising the conclusions of the Symposium.

A large number of Poster papers has been accepted (see attached list). Posters will be displayed during the entire conference. Poster size is 50 cm large x 120 cm long. Two special poster sessions are scheduled for the evenings of Tuesday 7 and Wednesday 8.

Contributors should be aware that they address a mixed audience, consisting of scientists with different backgrounds (i.e. nuclear physics, astrophysics, meteoritics etc.). In the spirit of the previous, highly successful, NiC meetings, special emphasis should be given on the implications of the presented results for the interdisciplinary field of Nuclear Astrophysics. Invited speakers, in particular, should take a few minutes to put their topic in a broader context. Notice that, due to the large number of speakers, a limited amount of time will be available (25 min + 5 min discussion for invited speakers; 12 min + 3 min discussion for contributed talks), requiring well prepared presentations.

For oral presentations, slide and overhead projectors will be available. If you need any other audio-visual equipment, please notify us as soon as possible.

The University of Thessaly will provide access to a fax and a photocopy machine. Also, access to a number of computer terminals connected to Internet will be provided during the Conference.

4. PROCEEDINGS

The Proceedings of the Symposium will be published by Editions Frontieres (France). All contributions to the Symposium (invited, contributed oral and posters) will be published. Page limit is 7 pages for invited papers and 4 pages for oral and poster contributions. In order to achieve a rapid publication authors are requested to submit their manuscripts soon after the Symposium and in any case no later than September 15th, 1998 (final deadline).

In the interest of uniformity in the layout of the proceedings authors are kindly requested to use a LaTeX macro (nicV.sty) along with a sample file (sample.tex), containing the Instructions to the Authors. These files (along with a postscript figure file (fig.ps), used for illustration purposes) are available by anonymous ftp on the machine ftp.iap.fr, in the directory /pub/from_users/prantzos/nicV. In order
to get the macros, you should connect to ftp.iap.fr as follows:

```
ftp ftp.iap.fr
Name: anonymous
Password: your full e-mail address (e.g. prantzos@iap.fr)
```

```
ftp> cd pub/fromusers/prantzos/nicV
ftp> get sample.tex
ftp> get nicV.sty
ftp> get fig.ps
ftp> bye
```

The macro and the sample file must be used for your text, which should be submitted electronically to the same ftp address, as indicated in the sample.tex file. If, for some reason, you cannot get the macros in the indicated way, please contact prantzos@iap.fr.

5. SOCIAL EVENTS AND ACCOMPANYING PERSONS

Social events during the Conference include:

- A Welcome cocktail on the evening of Monday 6
- An excursion to Meteora on the morning of Thursday 9 (8:00-15:00)
- A 3-hour cruise in the Golf of Pagasetikos, on the evening of Thursday 9
- The Conference Dinner, on the evening of Wednesday 10

The Registration Fee covers participation to all these events. Accompanying persons may also participate, at the following prices: Excursion to Meteora: 15 US $; Cruise: 10 US $; Conference Dinner: 15 US $; participation to the Welcome Cocktail is free for accompanying persons. Tickets for participation to these events will be available at the Registration Desk during the Symposium.

Volos (starting point of Jason and the Argonauts in the Greek mythology) has several nearby tourist attractions, including the beautiful Mount Peleion (home to the Centaurs) and the Sporades islands, one of the most important summer vacation resorts in Greece. Those wishing to spend some more time in the region either before or after the meeting should contact their travel agent. During the Conference, excursions to nearby tourist attractions (e.g. Volos museum or the paleolithic settlements of Dimini and Sesklo) may be organised for accompanying persons. For information, they should contact the Desk of PARK Hotel after their arrival.

Weather in Greece during the summer months is usually hot (average temperature: 25-30 Celsius), with extremely rare showers. The Conference Room and the hotels are air-conditioned.

CONTACT ADDRESS

For Registration, Abstract Submission, Information about your Arrival:

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NCSR Democritos, Agia Paraskevi
Athens, GREECE

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Fax: 30 1 65 11 215

For anything else:

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SCIENTIFIC ORGANISING COMMITTEE OF NICV

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LOCAL ORGANISING COMMITTEE OF NICV
S. HARISSOPOULOS, T. PARADELLIS (NCSR “Democritos”, Athens);
D. DIALETTIS, E. KONTIZAS (Athens Observatory);
G. AGRAFIOTIS (University of Thessaly); N. PRANTZOS (IA Paris)-Chairman
PROGRAMME
Invited talks: 25min + 5min discussion; contributed talks: 12min + 3min discussion

MONDAY 6

08:30-09:00  REGISTRATION

09:00-09:15  OPENING SESSION
Welcome addresses
09:15-10:00  H. Reeves
Sixty years of Nuclear Astrophysics

10:00-10:45  COFFEE BREAK

10:45-11:15  BIG BANG AND THE LIGHT ELEMENTS
J. Audouze
Early nucleosynthesis of the lightest elements
T. Kajino
Degenerate neutrinos and Big Bang nucleosynthesis
I. Vergados
Search for supersymmetric dark matter
C. Deliyannis
Lithium and beryllium in stars
R. Michel
Spallation reactions in astrophysics
R. Ramaty
Evolution of Be and B and the origin of Cosmic Rays

13:00-14:30  LUNCH

14:30-16:00  H- AND He- BURNING IN STARS
T. Wilson
Interstellar isotopic ratios
A. Champagne
Na and Al in globular cluster stars: reaction studies
C. Chronidou
Cross-section measurements of $^{20}$Ne(p,γ)
A. D'Alessandro
The $^3$(He,pα)$^3$He reaction at Gran Sasso
M. El Eid
Evolution and Nucleosynthesis in Red Giant Stars

20:00-21:30  WELCOME COCKTAIL

TUESDAY 7

08:30-09:00  NUCLEOSYNTHESIS IN MASSIVE STARS
D. Arnett
Nucleosynthesis and mixing in massive stars
W. Hammer
Investigation of reactions of CNO cycle and He-burning

09:00-09:15
P. Tischauer
Results from $^{12}$C(α,α)$^{12}$C; implications for $^{12}$C(α,γ)

09:00-10:00  CORE COLLAPSE SUPERNOVAE
N. Langer
Stellar rotation and nucleosynthesis
A. Chieffi
Evolution and yields of massive stars

10:15-11:00  COFFEE BREAK

11:00-11:30  SUPERNOVAE
T. Janka
Core collapse supernovae
G. Martínez-Pinedo
Large-scale shell model calculations for Nuclear Astrophysics
K. Nomoto
Supernova nucleosynthesis: an overview
J. Isern
The gamma-ray signature of SNe
P. Ruiz-Lapuente
Positrons in supernovae

12:30-13:30  LUNCH

13:30-16:00  COSMIC RADIOACTIVITY; THE R-PROCESS (I)
R. Diehl
Gamma-ray line astronomy
D. Hartmann
Cosmic chemical evolution and gamma-ray line astrophysics
B. Meyer
Nuclear dynamics of the r-process
D. Lunney
Nuclear masses: models, experiments, astrophysical impact
A. Ignatyuk
Level densities of neutron-rich nuclei

20:00-21:30  1st POSTER SESSION

22:00-23:30  1st SEMI-FINAL OF WORLD-CUP (Nothing to do with NiC98!)
**WEDNESDAY 8**

**Session 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30-09:00</td>
<td>I. Borzov</td>
<td>Theoretical $\beta$-decay rates and astrophysical implications</td>
</tr>
<tr>
<td>09:00-09:15</td>
<td>S. Goriely</td>
<td>n-capture rates; implications for the s- and r-process</td>
</tr>
<tr>
<td>09:15-09:30</td>
<td>O. Sorlin</td>
<td>Study of n-rich Sc, Ti, V and Cr isotopes at GANIL</td>
</tr>
<tr>
<td>09:30-09:45</td>
<td>W. Walters</td>
<td>Study of very n-rich nuclides and the r-process</td>
</tr>
<tr>
<td>09:45-10:00</td>
<td>S. Rossowog</td>
<td>Mass ejection in neutron star mergers and the r-process</td>
</tr>
<tr>
<td>10:00-10:15</td>
<td>G. Mathews</td>
<td>Models for gamma-ray bursts from binary neutron stars</td>
</tr>
<tr>
<td>10:15-11:00</td>
<td></td>
<td>COFFEE BREAK</td>
</tr>
</tbody>
</table>

**Session 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00-11:15</td>
<td>M. Rayet</td>
<td>Some aspects of the synthesis of p-nuclei</td>
</tr>
<tr>
<td>11:15-11:30</td>
<td>S. Harissopulos</td>
<td>Cross-section measurements of relevance to the p-process</td>
</tr>
<tr>
<td>11:30-11:45</td>
<td>C. Grama</td>
<td>A new approach of a global alpha-optical model potential</td>
</tr>
<tr>
<td>11:45-12:15</td>
<td>P. Leleux</td>
<td>Experiments relevant to the hot CNO-cycles</td>
</tr>
<tr>
<td>12:15-12:30</td>
<td>W. Bradfield-Smith</td>
<td>Break-out from the hot CNO cycle via the $^{18}$Ne($\alpha,p$)$^{21}$Ne</td>
</tr>
<tr>
<td>12:30-12:45</td>
<td>J. Jose</td>
<td>Synthesis of $^7$Be, $^{22}$Na, $^{26}$Al in classical novae</td>
</tr>
<tr>
<td>12:45-13:00</td>
<td>C. Iliadis</td>
<td>Reaction rates for explosive II-burning</td>
</tr>
<tr>
<td>13:00-14:30</td>
<td></td>
<td>LUNCH</td>
</tr>
</tbody>
</table>

**Session 3**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30-15:00</td>
<td>S. Kubono</td>
<td>Experimental approach to the onset of the rp-process</td>
</tr>
<tr>
<td>15:00-15:15</td>
<td>J. D'Auria</td>
<td>Studies of nuclear reactions involving radioactive beams</td>
</tr>
<tr>
<td>15:15-15:30</td>
<td>H. Schatz</td>
<td>Nuclear burning on accreting neutron stars</td>
</tr>
<tr>
<td>15:30-15:45</td>
<td>M. Hashimoto</td>
<td>Rapid p-capture in X-ray bursts</td>
</tr>
<tr>
<td>15:45-16:00</td>
<td>G. Shaviv</td>
<td>The screening of nuclear reactions</td>
</tr>
<tr>
<td>16:00-16:15</td>
<td>P. Descouvemont</td>
<td>Screening effects on transfer reactions from R-matrix</td>
</tr>
<tr>
<td>16:15-16:30</td>
<td>K. Czerski</td>
<td>Electron screening of D(d,p)$^3$He in metallic media</td>
</tr>
<tr>
<td>20:00-21:30</td>
<td></td>
<td>2nd POSTER SESSION</td>
</tr>
<tr>
<td>22:00-23:30</td>
<td></td>
<td>2nd SEMI-FINAL OF WORLD-CUP (Nothing to do with NiC98!)</td>
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**THURSDAY 9**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00-15:00</td>
<td>EXCURSION TO METEORA</td>
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<td></td>
<td>AFTERNOON FREE</td>
</tr>
<tr>
<td>20:00-23:00</td>
<td>NIGHT CRUISE IN THE GOLF OF PAGASITIKOS</td>
</tr>
</tbody>
</table>
### FRIDAY 10

<table>
<thead>
<tr>
<th>Session 1</th>
<th>08:30-10:30</th>
<th>NUCLEAR DATA ARCHIVES FOR ASTROPHYSICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30-09:00</td>
<td>C. Angulo</td>
<td>Nuclear Astrophysics Compilation of Reaction Rates</td>
</tr>
<tr>
<td>09:00-09:30</td>
<td>T. Rauscher</td>
<td>Theoretical thermonuclear reaction rates in astrophysics</td>
</tr>
<tr>
<td>09:30-10:00</td>
<td>E. Firestone</td>
<td>Nuclear Astrophysics data dissemination on the Internet</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>F. Kaeppeler</td>
<td>Stellar n-capture rates and the s-process</td>
</tr>
<tr>
<td>10:30-11:15</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>Session 2</td>
<td>11:15-13:00</td>
<td>NUCLEOSYNTHESIS IN AGB STARS AND THE S-PROCESS</td>
</tr>
<tr>
<td>11:15-11:45</td>
<td>J. Lattanzio</td>
<td>Nucleosynthesis in Asymptotic Giant Branch stars</td>
</tr>
<tr>
<td>11:45-12:15</td>
<td>P. Kienle</td>
<td>$\beta$-decay experiments and astrophysical implications</td>
</tr>
<tr>
<td>12:15-12:30</td>
<td>P. Koehler</td>
<td>n-capture on $^{88}$Sr and implications for the s-process</td>
</tr>
<tr>
<td>12:30-12:45</td>
<td>N. Mowlavi</td>
<td>Dredge-up and nucleosynthesis in AGB stars</td>
</tr>
<tr>
<td>12:45-13:00</td>
<td>F. Cervi</td>
<td>n-capture cross-sections of $^{84}$Kr and $^{86}$Kr</td>
</tr>
<tr>
<td>13:00-14:30</td>
<td>LUNCH</td>
<td></td>
</tr>
<tr>
<td>Session 3</td>
<td>14:30-16:30</td>
<td>GALACTIC CHEMICAL EVOLUTION (I)</td>
</tr>
<tr>
<td>14:30-15:00</td>
<td>R. Gallino</td>
<td>The s-process in AGB stars of various metallicities</td>
</tr>
<tr>
<td>15:00-15:30</td>
<td>S. Amari</td>
<td>Pre-solar grains and supernovae</td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>S. Ryan</td>
<td>Abundances of the oldest objects in the Universe</td>
</tr>
<tr>
<td>16:00-16:15</td>
<td>H. Umeda</td>
<td>Abundances in metal poor stars and SNII</td>
</tr>
<tr>
<td>16:15-16:30</td>
<td>C. Travaglio</td>
<td>Galactic chemical evolution of n-capture elements</td>
</tr>
<tr>
<td>20:30-23:00</td>
<td>SYMPOSIUM DINNER</td>
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</table>

### SATURDAY 11

<table>
<thead>
<tr>
<th>Session 1</th>
<th>08:30-10:30</th>
<th>CHEMICAL EVOLUTION (II); NEUTRINOS IN SUPERNOVAE</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30-09:00</td>
<td>J. Truran</td>
<td>Cosmic chemical evolution</td>
</tr>
<tr>
<td>09:00-09:15</td>
<td>J. Geiss</td>
<td>Abundances of D and $^3$He and astrophysical implications</td>
</tr>
<tr>
<td>09:15-09:30</td>
<td>W. Gaquer</td>
<td>Heavy element nucleosynthesis in the early Galaxy</td>
</tr>
<tr>
<td>09:30-10:00</td>
<td>KH Langanke</td>
<td>Neutrino-nucleus interactions in astrophysics</td>
</tr>
<tr>
<td>10:00-10:15</td>
<td>D. Nadyozhin</td>
<td>Neutrino-induced production of the light elements</td>
</tr>
<tr>
<td>10:15-10:30</td>
<td>R. Boyd</td>
<td>OMNIS: Observatory for Multifavor Neutrinos from SN</td>
</tr>
<tr>
<td>10:30-11:15</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>Session 2</td>
<td>11:15-13:00</td>
<td>SOLAR NEUTRINOS</td>
</tr>
<tr>
<td>11:15-11:45</td>
<td>M. Cribier</td>
<td>Detection of solar and high-energy cosmic neutrinos</td>
</tr>
<tr>
<td>11:45-12:00</td>
<td>F. Hammache</td>
<td>The $^7$Be($p,\gamma$)$^8$B cross-section and the solar neutrinos</td>
</tr>
<tr>
<td>12:00-12:15</td>
<td>F. Strieder</td>
<td>Nuclear astrophysics at Bochum: implications for solar $\nu$</td>
</tr>
<tr>
<td>12:15-12:30</td>
<td>K. Suemmerer</td>
<td>Coulomb dissociation of $^8$B</td>
</tr>
<tr>
<td>12:30-12:45</td>
<td>A. Shotter</td>
<td>Coulomb break-up of $^8$B</td>
</tr>
<tr>
<td>12:45-13:00</td>
<td>A. Mengoni</td>
<td>Reaction rates from Coulomb dissociation: core excitation effect</td>
</tr>
<tr>
<td>13:00-14:30</td>
<td>LUNCH</td>
<td></td>
</tr>
<tr>
<td>Session 3</td>
<td>14:30-15:30</td>
<td>CLOSING SESSION</td>
</tr>
<tr>
<td>M. Arnould</td>
<td>Round Table on: Open Issues and</td>
<td></td>
</tr>
<tr>
<td>C. Rolfs</td>
<td>Perspectives for Nuclear Astrophysics;</td>
<td></td>
</tr>
<tr>
<td>FK Thielemann</td>
<td>General Discussion</td>
<td></td>
</tr>
</tbody>
</table>
POSTER PAPERS

Available space: 50 cm large x 120 cm long.
Only the first author is indicated on the list

1. Abia Carlos  LiBeB production with time-dependent GCR fluxes
2. Aliotta Marialuisa  Study of $^6$Li+d$\rightarrow2\alpha$ at astrophysical energies
3. Arlandini Claudio  The s-process synthesis of $^{142}$Nd
4. Balachandran Suchitra  Oxygen isotopic ratios and stellar evolution models
5. Bateman N.  Study of the $^{12}$C($\alpha,\gamma$) rate with the p-decay of $^{17}$N
6. Brune Carl  Sub-Coulomb a-transfer on $^{12}$C and the $^{12}$C($\alpha,\gamma$) rate
7. Butt Yousaf  Observation of the astrophysically interesting state $3/2^+$ of $^{19}$F
8. Davis Andrew  Pre-solar grains from meteorites
9. Deliyannis Costas  Primordial lithium from halo star observations
10. Desouvremond Pierre  $^{16}$O(p, $\gamma$)$^{17}$F at low energies
11. Dominguez Inma  Influence of the progenitor on the explosion of SNIa
12. Freiburghaus C.  A reduced Quasi-equilibrium network for Si-burning
13. Fullen Zsolt  Half-life of $^{44}$Ti
14. Gai Moshe  $\beta$-decay of $^{16}$N and oxygen formation in He-burning
15. Gervino Gianpiero  Constraints for solar neutrino fluxes
16. Grama Cornelia  A new phase of nuclear matter: new class resonant states
17. Graulich J.-S.  ARES, a recoil separator for radiative capture reactions
18. Greife Uwe  Direct experimental approaches to nucl. reaction rates
19. Gyurky Gergo  Absolute resonance strength of $^{36}$Ar(p, $\gamma$) reaction
20. Hale Jr. Stephen  The Ne-Na cycle and the composition of globular clusters
21. Hansper Vera  Study of the $^{46}$Ca($^4$He, $^4$He)$^{40}$Sc reaction at 26 MeV
22. Hashimoto Masa-aki  New evolutionary tracks from white dwarfs to neutron stars
23. Haubold Hans  Wavelet analysis of the Solar neutrino data
24. Hoenk Matthias  Chemical evolution of Deuterium in cosmological simulations
25. Ishimaru Yuhri  Inhomogeneous early enrichment of our Galaxy
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