FINAL ANNOUNCEMENT

THE NON-SLEEPING UNIVERSE: FROM GALAXIES TO THE HORIZON

27 to 29 November 1997
Centro de Astrofísica da Universidade do Porto
Porto, Portugal

1 General Information

This is the second and final announcement for the conference on "THE NON-SLEEPING UNIVERSE: FROM GALAXIES TO THE HORIZON", to be held at the Centro de Astrofísica da Universidade do Porto (CAUP), Porto, Portugal, on 27-29 November 1997. The aim of this conference is to bring together astronomers interested in several aspects of "non-sleepiness" at stellar and interstellar scales. Topics include:

- Cosmological models and structure formation
- Cosmic microwave background
- Cosmological parameters: Λ, Ω_0, H_0
- Gamma-ray bursts
- Active galactic nuclei and X-ray clusters
- Hubble Deep Field

Our aim, in gathering astronomers involved in studying different aspects of the "non-sleeping universe", is to establish a favourable environment for new ideas and views to surface. Many of these aspects are topics of research at the CAUP, therefore providing the main motivation for organizing such a conference.

Participants at this conference wishing to attend the other conference entitled "THE NON-SLEEPING UNIVERSE: STARS AND THE ISM", held at the same venue (24–26 November 1997) can find information in a separate announcement.

Information on both conferences is available at:

`http//www.astro.up.pt/nsu/`

2 Scientific Organizing Committee

Paul Barr (ESA), John Barrow (Sussex), Alexander Boksenberg (Cambridge), Peter Brand (Edinburgh), Giuseppina Fabbiano (Harvard-Smithsonian), Gerald Fishman (NASA), Riccardo Giacconi (ESO), Jean Heyvaerts (Strasbourg), Teresa Lago (Porto), Anthony Lasenby (Cambridge), Paulo Macedo (Porto), Francoise Praderie (Paris), Eric Priest (St.Andrews), Martin Rees (Cambridge), Ian Roxburgh (London), Robert Williams (STScI)

3 Programme

For updated information on the programme (including abstracts) please see the WWW conference page.

THURSDAY, 27 NOVEMBER 1997

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 9:00-9:25 - OPENING SESSION

SESSION 1 - GAMMA-RAY BURSTS: THE LATEST NEWS

 9:25-10:10 - Charles Meegan (NASA/Marschall) - "Gamma-Ray Bursts: Where are we now?"
10:10-10:30 - Oral Contribution
10:30-11:00 - Coffee

SESSION 2 - AGN: "ISOLATED" AND IN CLUSTERS

11:00-11:45 - Roger Blandford (Caltech)
11:45-12:30 - Oral Contributions

15:00-15:45 - Giuseppina Fabbiano (Harvard-Smithsonian) - "X-Ray Signatures
              of Low Luminosity AGN and non-AGN activity in galaxies"
15:45-16:30 - Oral contributions
16:30-17:40 - Coffee and Posters

SESSION 3 - THE HUBBLE DEEP FIELD

17:40-18:25 - Simon White (MPA,Garching) - "Galaxy Formation - Observed at last?"
18:25-18:45 - Oral Contribution
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FRIDAY, 28 NOVEMBER 1997

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SESSION 4 - DARK MATTER

 9:00- 9:45 - Albert Stebbins (NASA/Fermilab) - "Seeing the Dark Matter Through
                    Gavitational Lensing"
 9:45-10:25 - Oral Contributions
10:25-11:00 - Coffee

SESSION 5 - CMB ANISOTROPIES: PRESENT STATUS AND FUTURE DEVELOPMENTS

11:00-11:45 - Anthony Lasenby (Cambridge) - "Present and future observations of the
                       CMB and their implications"
11:45-12:25 - Oral Contributions

15:00-15:45 - Alain Blanchard (Strasbourg) - "What do the CBR fluctuations tell us?"
15:45-16:25 - Oral Contributions
16:25-17:20 - Coffee and Posters

SESSION 6 - COSMOLOGICAL MODELS FOR STRUCTURE FORMATION:
                        INFLATION vs TOPOLOGICAL DEFECTS
17:20-18:05 - Andrew Liddle (Sussex) - "Inflation and the Microwave Background"
18:05-18:45 - Oral Contributions

20:00       - CONFERENCE DINNER
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SATURDAY, 29 NOVEMBER 1997

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SESSION 7 - DETERMINATION OF COSMOLOGICAL PARAMETERS

 9:00- 9:45 - Carlos Frenk (Durham)
 9:45-10:25 - Oral Contributions
10:25-11:00 - Coffee
11:00-11:45 - Oral Contributions

11:45-12:30 - CLOSING SESSION

14:30-18:30 - GUIDED TOUR TO HISTORIC PORTO (UNESCO WORLD HERITAGE)
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4 Registration Fee

Early Registration - 20 000 Escudos - before 30 September

Late Registration - 30 000 Escudos - after 30 September

Approximate currency exchange rates are: 1DM=100 Escudos, 1GBP=300 Escudos and 1US$=180 Escudos. The registration fee includes one volume of the proceedings. The cost of the conference dinner is not included in this fee (see 12. SOCIAL EVENTS). Please note that we can only accept a limited number of participants and if you pay at the venue you will be charged the Late Registration Fee (30 000 Escudos).

5 Important Deadlines

Early Registration - 30 September 1997

Accommodation Booking - 30 September 1997

Submission of Abstracts - 15 October 1997

6 Abstracts and Proceedings

If you would like to present a contribution at the conference you must submit an abstract. The abstract should be limited to 15 lines in the final LaTeX processed output (or approximately 200 words). This abstract will be printed in an abstract booklet which will be distributed at the beginning of the conference. Contributed presentations will be in the form of posters or oral presentations (whenever possible). The abstracts should be submitted using the LaTeX macro provided at the conference WWW homepage.

Proceedings will be published including the oral presentations and the posters. The volume will also include contributions from the conference "The Non-Sleeping Universe: Stars and the ISM" to be hosted by CAUP (24–26 November 1997).

7 Conference Site

This conference will take place in the city of Porto to mark the opening of the new building of the Centre for Astrophysics/Planetarium. CAUP is a young research institute in Astronomy and Astrophysics set up only six years ago, with eleven researchers (lecturers and post-doctorates) and four postgraduate students, with major areas of interest being stellar astrophysics and cosmology. It hosts the European MSc in

Astrophysics and, starting next year, a Msc in Teaching of Astronomy. CAUP also has a popularization of science component with a portable planetarium, already visited by more than 100 000 children, and an "astroteca" - an astronomy resource for the public. It also organizes a large number of public talks. Besides absorbing the actual CAUP activities, the new infrastructure will play a major role in gathering together research and popularization in Astronomy.

The conference location is close to a shopping area with several places for lunch and dinner. Buses to the town centre run fairly often from the conference site and take approximately 20 minutes.

8 About Porto

Porto is Portugal's second largest city. It is located in the northern margin of the river Douro, near the Atlantic. The city has a population of around 350 thousand inhabitants, but if we consider the metropolitan area the population is around 1.2 million. It is also a major centre for commerce and industry in Portugal.

Porto is the birthplace of Infant D. Henrique, the Navigator, and had an important role in the Portuguese maritime expansion. In terms of art, there are a number of baroque churches with a distinct golden woodcraft. The old centre of the town has been recently classified as "World Heritage", by UNESCO, due to its historic and architectonical importance.

The name of the city, usually known as Oporto to the British, derives from "portus", word that the romans added to the local name "cale" (meaning refuge or shelter): "porto de cale" (the root of name "Portugal"). From the beginnings of the XII century, the city is designated simply as "portus", Porto. The city is largely well known in the world mainly due to its famous Port wine ("vinho do Porto"). The wine is cultivated and produced in the mountains along the river Douro to the East of Porto, and is then matured in special oak barrels in cellars by the river, in Porto. Participants will have the opportunity to taste some Port Wine.

9 Travelling to Porto

a) By plane: Porto is served by an international airport, about 13 kms to the north of the city centre. From the airport you can take a Taxi (fare around 3 000 Escudos to the city centre) or the STCP Bus no. 56 (160 Escudos ticket sold inside) which takes you to the town's centre, going through Boavista (close to the conference site).

b) By car: Porto is well served by motorways. If you decide to come by car, we advise you to cross the Spanish-Portuguese border at Vilar Formoso in Central Portugal, which is about 120 kms to the west of Salamanca. From there you take road IP5 towards the western coast and near Aveiro you head north, taking motorway A1 all the way to Porto. The toll from Aveiro to Porto is around 600 Escudos. The price of petrol in Portugal is quite high, with one litre of unleaded fuel costing 163 Escudos, and one litre of diesel costing 115 Escudos.

c) By rail: The international connections to Porto by rail are often quite slow. There is a train Madrid-Porto which takes 10-12 hours. If you are coming through Lisboa, you can take a fast train Lisboa-Porto (Alfa) taking about 3 hours for the trip (return fare is 5350 Escudos), or you can go for a less expensive, slower service.

Please make all the necessary VISA arrangements to come to Portugal. If you arrive from one of the European Union countries you don't need a VISA. There are also many other countries from where a VISA is not required. Please enquire at the local Portuguese embassy.

10 Weather and Money Spending

Weather in Porto in late November is usually rainy, with temperatures hardly lower than 10 degrees Celsius. Most shops take all major credit cards (VISA, MASTERCARD, ACCESS, AMERICAN EXPRESS). This might not be true in small restaurants which are used for snacks and lunches. Also, there is a good network of cash machines where you can withdraw money. These accept all major cards.

11 Accommodation

We enclose an Accommodation Form which includes a list of hotels (with different prices and categories) that are located close to the conference site and downtown. Walking from the hotels close to the conference site takes about 10–15 minutes. From downtown, the buses (number 35, 37 or 78) take about 20–30 minutes.

Try to book your room as soon as possible - we cannot guarantee that last minute registrations can be accommodated. All reservations must be accompanied by the deposit corresponding to one night charge. The deposit will not be refunded for cancellations after 31 of October.

Prices per room per night are (breakfast included):

	single	double	distance
Hotels:			
(1) Hotel TuelaTorre ****	12 500	13 000	walking
(2) Hotel Mercure Batalha ****	12 300	14 300	bus
(3) Hotel Tuela ***	10 000	10 200	walking
(4) Hotel Internacional ***	10 000	12 000	bus
(5) Hotel Bolsa ***	9 900	12 100	bus
(6) Hotel Douro ***	10 000	10 000	walking
Residenciais: (bed-and-breakfast type of accommodation with private facilities)			
(7) Residencial dos Aliados ***	4 500	5 500	bus
(8) Residencial O escondidinho ****	5 000	6 000	bus
(9) Residencial Vice-Rei ****	7 100	8 400	walking

A map of Porto with indication of all hotel and Residenciais is available on the conference WWW page.

12 Social Events

The programme of social events is described below. For organizational reasons, the total number of participants in each event must be known in advance. So, if you are interested in participating in any of them, please fill in the corresponding Social Events form attached at the end of this document.

Event A: Conference Dinner - The conference dinner will be held in a restaurant located by the river Douro in the old town. The participants can enjoy the view of historic Porto. The cost of the conference dinner is 8000 Escudos per person.

Event B: Guided tour to UNESCO World Heritage: Historic Porto - Porto's Town Hall offers a guided tour around the historic centre of Porto. All participants that wish to reserve a place, should fill in the Social Events Form attached at the end of this document.

13 Forms

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" THE NON-SLEEPING UNIVERSE: FROM GALAXIES TO THE HORIZON "

27-29 November 1997

Centro de Astrofisica da Universidade do Porto

Porto, Portugal

FORMS: REGISTRATION, ACCOMMODATION, SOCIAL EVENTS AND PAYMENT

REGISTRATION FORM

NOTE: If you have already registered, please just state your full name and proceed to the Accommodation Form section below.

Surname:__________________ First Name:____________________ Title:_______

Email:________________ Telephone:_____________ Fax:______________

Institute:____

Address:____

City/State:___________ Country:____________ ZIP/Postal Code:__________

I would like to present the following contributions(s) on:

_____ poster or _____ oral (if possible)

Please submit your abstract by 15 OCTOBER 1997 the latest, using the macro provided at the conference WWW page.

ACCOMMODATION FORM

Check the Final Announcement for a list of available Hotels and respective characteristics and the conference WWW page for a Map of their location in Porto.

Write your Hotel/Residential preferences below:

1st choice: _________ 2nd choice: _________ 3rd choice: __________

>From date:____________ To date:______________ = ______ nights.

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I PREFER:
        ______ SINGLE ROOM
        ______ DOUBLE ROOM (1 LARGE BED)
        ______ TWIN ROOM (2 BEDS):   To share with:_____________________
        ______ TWIN ROOM (2 BEDS):
                 Please assign me a roommate. I am  ___Male  ___Female.

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                          SOCIAL EVENTS FORM

I intend to participate in the following social events:

     A: ______  Tour to historic Porto (free)

     B: ______  Conference Dinner  (8000 Escudos per person)

and will be accompanied by _____ persons.
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                          PAYMENT FORM

REGISTRATION FEE ....................... _________________

CONFERENCE DINNER ...................... _________________

HOTEL DEPOSIT (one night)  ............. _________________

                                TOTAL    _________________ ESCUDOS

Method of payment (all payments in Escudos):

______ BANK CHEQUE  (payable to "Centro de Astrofisica")

______ EUROCHEQUE   (payable to "Centro de Astrofisica")

______ BANK TRANSFER (please enclose copy of transfer receipt) to
       Account name: DR AMADEU  FERNANDES
       Account number (NIB) 0017-0214-0004099645176
       Bank: BANCO PORTUGUES ATLANTICO
       Branch: GONCALO SAMPAIO / PORTO, PORTUGAL

Note that your registration (both for the conference and the
accommodation) will be effective only after receipt of all fees.
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Please return these forms by 30 SEPTEMBER 1997 for an early
registration, together with your payment, to:

   NSU Local Organizing Committee        Phone: +351 2 600 7081
   Centro de Astrofisica                 Fax  : +351 2 600 7082
   Universidade do Porto                 E-mail: nsu-galaxies@astro.up.pt
   Rua do Campo Alegre, 823
   4150 Porto - PORTUGAL                 http://www.astro.up.pt/nsu/
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