

NATIONAL SCHOOL IN ASTROPHYSICS

School Outline

The National School in Astrophysics is addressed to PhD students in Astronomy and Physics and it is open to all young researchers. The aim of the school is to contribute to their qualification and provide a common cultural baseline on hot topics of modern astrophysics, both theoretical and experimental.

School Organisation

The school is two-years long, being comprised of 4 courses of 1 week each, for a total amount of 120 hours of lectures. Each course is about 2 or 3 topics, possibly not closely connected. The courses will be held in centres placed in the neighbourhood of different Astronomical Observatories and/or Universities to facilitate the interaction between students and the local astronomical research groups.

Cycle VIII (2005-2006)

1st Course: *Wide field observational cosmology – The distance ladder*

SOC: M. Capaccioli – C. Chiosi

S. Agata sui due golfi (NA), May 8 – 13, 2005

2nd Course: *The external Solar System and the Cassini mission – Star formation*

SOC: A. Coradini – F. Palla

Volterra (PI), October 10 – 15, 2005

3rd Course: *Dynamics of Galaxies – Active Galactic Nuclei*

SOC: L. Ciotti – A. Comastri

Bertinoro (FC), May 7 – 12, 2006

4th Course: *Galaxy Clusters – Astrophysical plasma*

SOC: S. Borgani – M. Velli

Trieste, 2 – 6 ottobre 2006

National Scientific Committee

G. Bertin, A. Carusi, C. Chiosi, R. Fanti, R. Pallavicini

Scientific Secretary: L. Moscardini

NATIONAL SCHOOL IN ASTROPHYSICS

Cycle VIII (2005-2006): 3rd Course, May 7–12, 2006

Dynamics of Galaxies – Active Galactic Nuclei

Centro Residenziale Universitario of Bertinoro (Forlì and Cesena)

<http://www.centrocongressibertinoro.it>

Speakers and Lectures

Dynamics of Galaxies:

- *Giuseppe Bertin* (University of Milano)
Dynamics of Spiral Galaxies
- *Luca Ciotti* (University of Bologna)
Dynamics of Elliptical Galaxies
- *Silvia Pellegrini* (University of Bologna)
Central regions of galaxies (and their massive BHs)
- *Renzo Sancisi* (INAF-OA Bologna & Groningen University, The Netherlands)
Dark matter
- *Massimo Stiavelli* (Space Telescope Science Institute, Baltimore, USA)
Dynamics of high-redshift galaxies
- *Marc Verheijen* (Groningen University, The Netherlands)
Galaxy scaling laws

Active Galactic Nuclei:

- *Annalisa Celotti* (SISSA)
Black Hole driven particle acceleration and gamma-ray emission
- *Martin Elvis* (CfA-Cambridge, USA)
Black Hole accretion and feedbacks
- *Günther Hasinger* (MPE Garching)
Black Hole cosmological evolution
- *Alessandro Marconi* (INAF-OA Arcetri)
Observational evidences and demography of Black Holes
- *Marco Mignoli* (INAF-OA Bologna)
Optical spectroscopy: from classification to Black Hole masses
- *Tiziana Venturi* (INAF-IRA Bologna)
Radio loud Black Holes: an observational perspective
- *Marta Volonteri* (University of Cambridge, UK)
Black Hole formation and light up

Scientific Organising Committee:

Luca Ciotti, Andrea Comastri

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The School is organised by the Alma Mater Studiorum University of Bologna, the Astronomy Department, the National Institute of Astrophysics and by INAF-Astronomical Observatory of Bologna.

Local Organising Committee:

Micol Bolzonella, Angela Bongiorno, Eugenio Carretta, Francesca Civano, Lauro Moscardini, Carlo Nipoti, Mauro Roncarelli

Course Secretary:

The deadline for the registration is **March 31st 2006**. It is possible to apply either using the on-line registration form (<http://www.bo.astro.it/~scuola06/>) or e-mailing the ASCII form to scuola06@bo.astro.it. The school fee will be 300 euro (subject to modifications), including accomodation, breakfast and lunch at the Centro Congressi, and meal tickets to have dinner in Bertinoro's restaurants and trattorie. Extra 50 euro are required for single room accomodation (the number of single rooms is limited). A few grants might be available to partially cover the school fee.

National Scientific Committee

G. Bertin, A. Carusi, C. Chiosi, R. Fanti, R. Pallavicini
Scientific Secretary: L. Moscardini

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REGISTRATION FORM

NAME AND SURNAME

UNIVERSITY/INSTITUTE

ADDRESS

Phone/Fax

e-mail

Accommodation:

Single room Double room With:

Grant request:

no yes Reasons:

Status:

PhD Student Postdoc Fellow Student Other (specify).....

Research field:

Oral contribution:

no yes Title:

INTEREST FOR THE BUS SERVICE:

From Forlì station to Bertinoro, if arriving Sunday 7th May after 7.10 p.m.:

no yes

From Bertinoro to Bologna friday afternoon:

no yes

Eventuali altre richieste/esigenze:

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To fill in and send back BEFORE March 31st, 2006 to the Course Secretary: National School in Astrophysics (Cycle VIII, 3rd course) e-mail: scuola06@bo.astro.it.