



astro mundus

international
master

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Education and Culture DG

ERASMUS MUNDUS

What is AstroMundus?

- 2-years Erasmus Mundus Masters Course (120 ECTS) in Astrophysics
- offered by a consortium of 5 partner universities in 4 different countries:

Austria – Innsbruck

Italy – Padova & Rome

Germany – Goettingen

Serbia – Belgrade

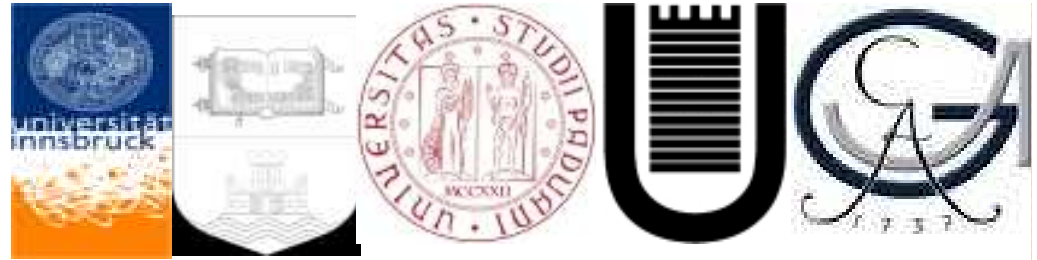
2010-2015 (5 cycles)



What is AstroMundus?



Partners



- chosen according to their excellence in education, especially success in **research**
 - University of Innsbruck, coordinator
 - University of Padova
 - University of Rome “Tor Vergata”
 - University of Goettingen
 - University of Belgrade, as a Third Country partner

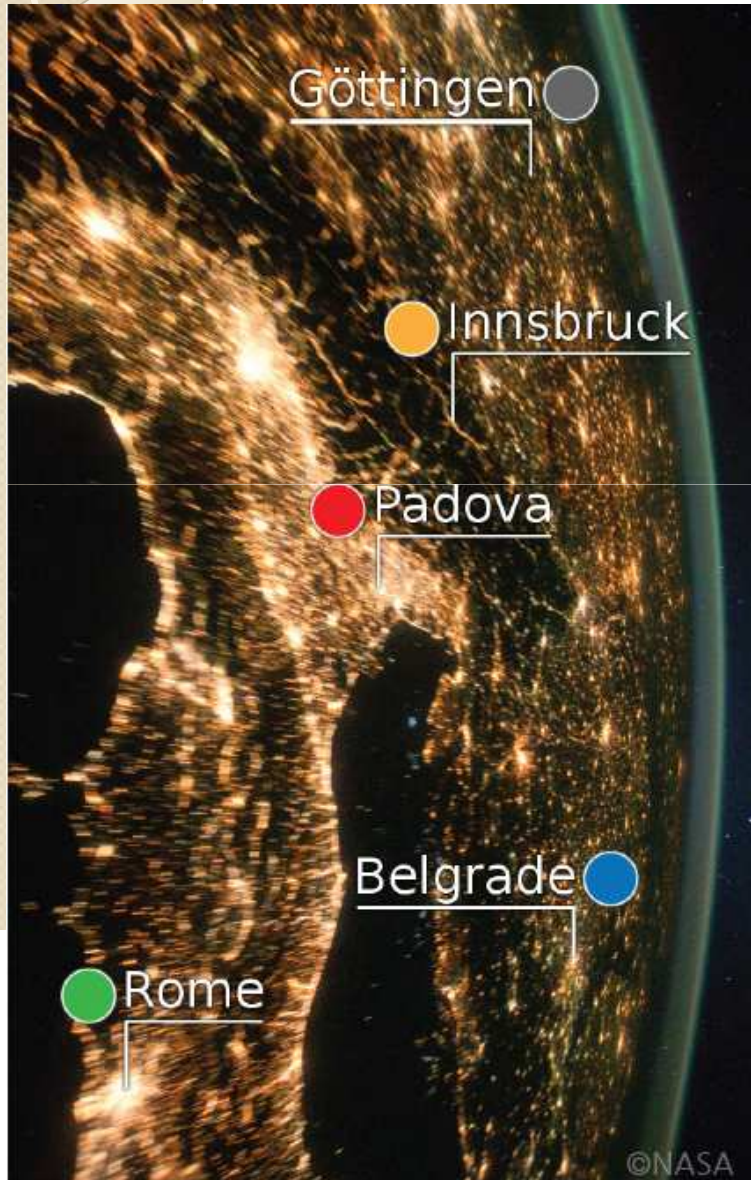
AstroMundus - objectives












- **Main objective:** to provide top-ranked students with an excellent background in Astrophysics
- But also:
 - to introduce them to the world of modern astrophysical research
 - to foster their future career in this field
 - emphasis is put on the application of modern techniques both in the observational and theoretical/computational domain
- number of students per cycle (our aim): 25 Third Country students + 15 European students
- Exchange of scholars
- cultural and scientific exchanges btw. Third Country and European students and academics

AstroMundus - organization

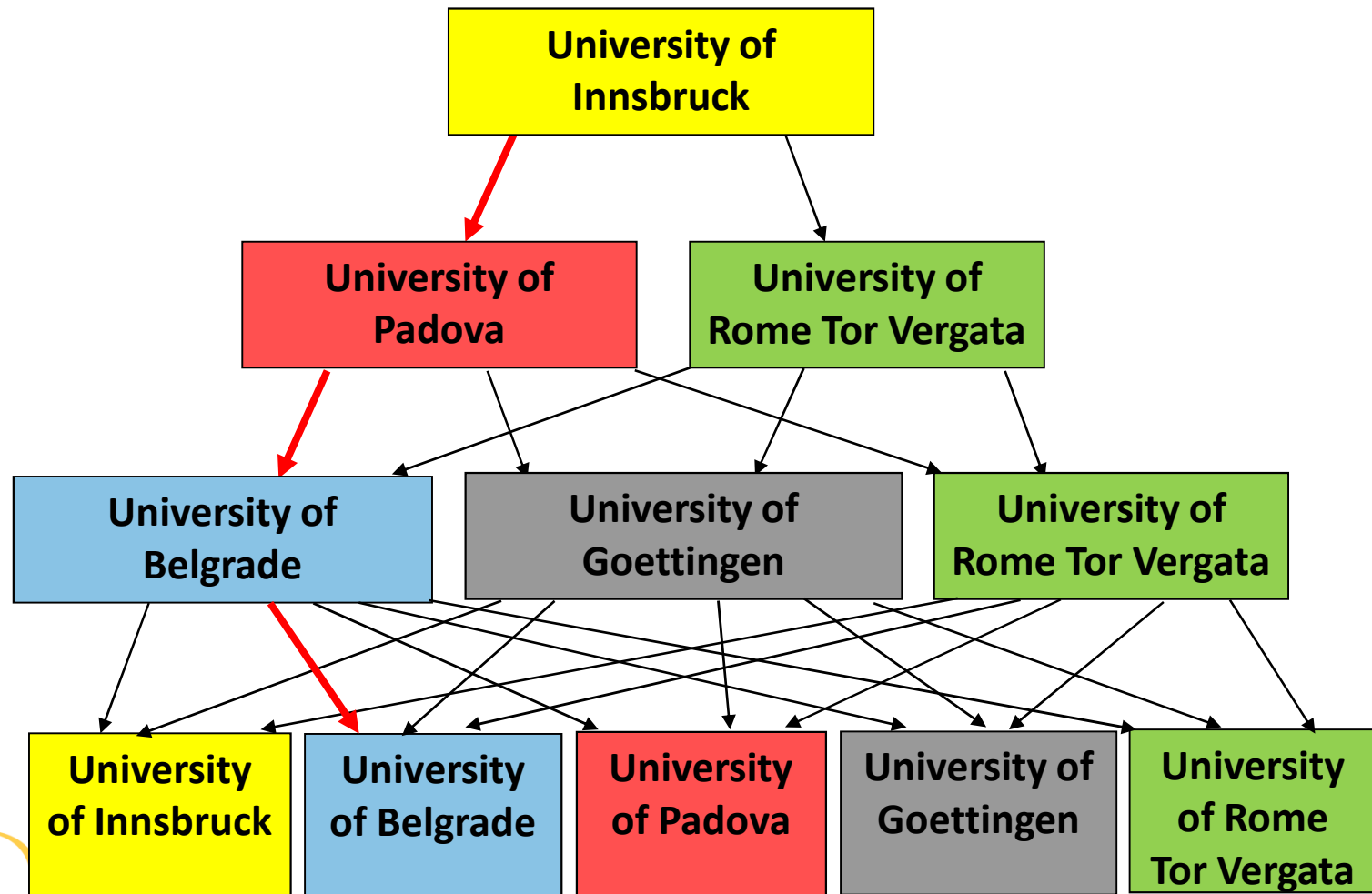
- students carry out their master studies in at least 2 and up to 4 of these countries
- official language of the course is English (possibility to learn languages of the host countries)
- successful students will be awarded a **Joint Master Degree** by all partner universities they have visited during the Master studies
- plus, Diploma Supplement to facilitate the recognition of their degree in other universities/countries

Concept of studies



- **1st semester** - students attend courses at the entrance university (University of Innsbruck) – focused on basic learning in Astronom  nd Astrophysics
- **2nd semester** - spent at one of the   Italian partner (Padova and Rome)
- **3rd semester** - spent in one of the three partner institutions: Rome, Göttingen, or Belgrade depending on the astrophysical    es which students will select to specialize
- **4th semester** - Master's thesis (30 ECTS) - can be at      l in any of the partner institutions (possibility of **joint supervision**)

Possible paths



Implementation of the program

1. administrative work – agreements prepared and signed, programme recognition, adjusting regulations of all partners, student issues, finances...
2. different committees nominated
3. selection criteria, call for applications, recruitment campaigns...
4. website, database, mailing lists, communication, communication...

Admin work

- most important the recognition process
 - famous “Akreditacija” (recognition *in Serbian*)
 - we got it!
- many issues: e.g. :
 - transcribes of records (conversion table)
 - enrollment to different partners
 - joint diploma
 - ...



Consortium Committees

- Board Committee – management
 - Selection Committee
 - Quality Committee
 - Scientific Advisory Board
-
- Academic Advisors – consulting student's path (especially for the Master thesis)





Organization in Belgrade



- officially led by the University of Belgrade and Faculty of Mathematics
- main management body is: Programme Council (“Programski savet”), which is under the “Council for the Universities studies”
 - accepting list of courses
 - master thesis (subjects, titles, supervisors, etc.)
 - finances and any other admin decisions
- students enrollment and other admin business: synergy of the University and Faculty of Math.
- support from the Astronomical Observatory

Call for Application - recruitment campaigns



- astromundus.eu website
- call sent to all universities offering math, physics and astronomy
- posters and flyers sent to 500 institutes
- advertisement on European Campus Platform, different Masters Portal/Study Portals, Masters Compare;
- Facebook page, Wikipedia,
- alumni page



1st cycle

- 2010-2012
- 20 students
(all with fellowships
15 A + 5 B)
- Belgrade visited by:
 - 3 students (in 3rd semester)
 - 3 students (in 4th semester)



Retreat

- **aim:** students to choose and meet master thesis supervisors
 - student's poster presentations of Master thesis work
- lecturers and students meet together from all partners
- meeting of all committees
 - organized at one of the partners (Padova Asiago





Master thesis - 1st cycle

- total of 18 thesis
- 3 thesis defended in Belgrade
(2 jointly supervised w/Goettingen)

- **Payaswini Saikia** „The UV and optical spectral properties of a sample of broad line AGNs“
- **Nemanja Rakic** „Variability of AGN spectral properties“
- **Luca Grassitelli** „Physical Parameters of the Relativistic Shock Waves in a Sample of Gamma Ray Burst“



Future plans

- next semester starts October 2012 for the 3rd cycle: 16 students (14 fellowship +2)
- we have: 5 cycles under support of EU (i.e. 6 years)
⇒ there is the possibility for an extension
- continue with conducting of the programme

output → Master students, research development, new common research project, exchange of scholars

How to apply and deadline:

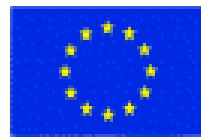
- Applications can be submitted via www.astromundus.eu
- Applications for the course starting in September 2013 should be submitted no later than November 30th 2012
- As part of the application process, students can also apply for a fellowship (A type: non-European students and B-type: European students)

Thank you for your attention!

For more details visit

www.astromundus.eu

Erasmus Mundus website



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