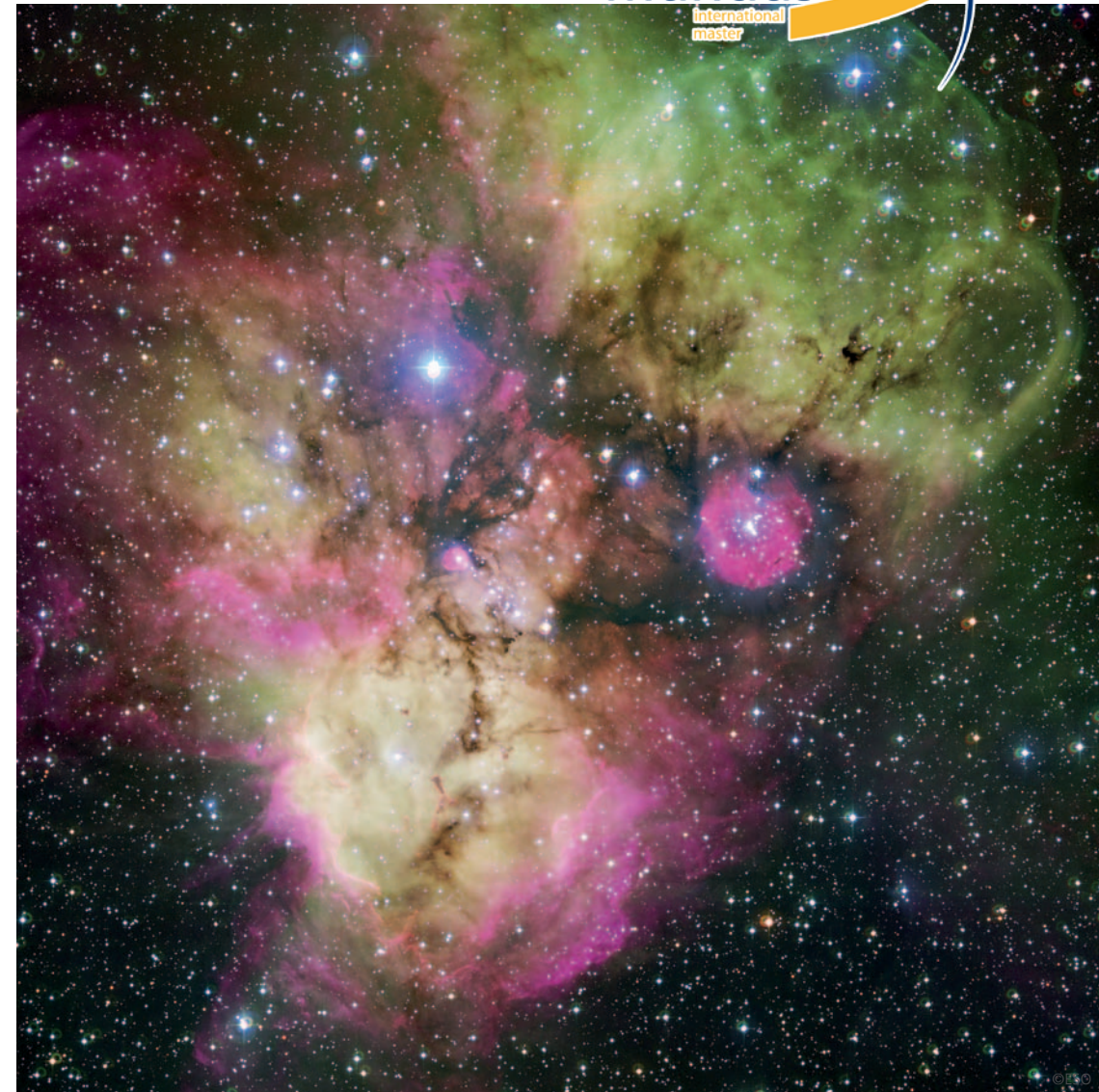


International Master's Degree in Astronomy and Astrophysics

<http://www.astromundus.eu/>



Education and Culture DG
Lifelong Learning Programme

Applications can be submitted via <http://www.astromundus.eu/>.
Applications for the course starting in Sept. 2012 should be submitted no later than Nov. 30th, 2011.

AstroMundus is a 2-year master's course in astronomy and astrophysics in the framework of the ERASMUS MUNDUS Programme of the EU.

The course is open to students of all nationalities. It is offered by a graduate school partnership of five universities in four different countries: University of Innsbruck, Austria, University of Padova, and University of Rome Tor Vergata, Italy, University of Göttingen, Germany and University of Belgrade, Serbia. It provides outstanding education in all branches of astrophysics. The teaching language is English.

Students will carry out their studies at two or more of the partner universities. They will obtain a joint degree by all the universities they have studied at.

The 2-year course programme is divided into 4 semesters with the following sequence:

1st Semester: University of Innsbruck

2nd Semester: Universities of Padova or Rome Tor Vergata

3rd Semester: Universities of Göttingen, Belgrade or Rome Tor Vergata

4th Semester: Master's thesis at one of the five universities

A number of fellowships are available: 32,000 € for non-European students and 12,000 € for students from EU, Iceland, Norway, and Liechtenstein. The fellowships cover the whole duration of 2 years. Students who have been

selected for a fellowship do not have to pay tuition fees. Student housing at the different sites will be organised.

Topics covered by the course include:

- Galactic astrophysics (Sun and Solar system, Milky Way, stellar evolution, interstellar medium)
- extrasolar planets
- extragalactic astrophysics (galaxies, galaxy evolution, galaxy clusters, intra-cluster medium)
- active galactic nuclei (including accretion theory, relativistic jets)
- cosmology (including observational cosmology, galaxy surveys, gravitational lensing, very early universe)
- astroparticle physics
- gravitational waves
- observational astrophysics (ground-based and space-based)
- computational astrophysics (N-body simulations, hydrodynamic simulations, magneto-hydrodynamic simulations)
- particle cosmology

There are internationally renowned experts on all these subjects in the partnership.