

First Year Programme



The courses of the first year are dedicated to general Physics with an introduction to Astrophysics. The students will also acquire a solid training in scientific computing

In parallel to the lectures given through e-learning and tutoring, students will work on 4 astrophysical projects. Each project will last approximately 6 weeks

The students will stay at our laboratories ([LAM](#) & [PIIM](#)) and will regularly meet their teachers and supervisors

Examples of projects:

- How do stars shine?
- Dark matter revealed
- Dark energy modelling
- Formation of the Solar System
- The Solar System beyond Neptune
- The origin of comets
- Measuring the universe expansion

Second Year Programme



Courses focus on the core topics of Astrophysics

Courses and projects will be completed in our laboratories between September and March before undertaking **a full 4-month research internship at a laboratory in France or abroad**

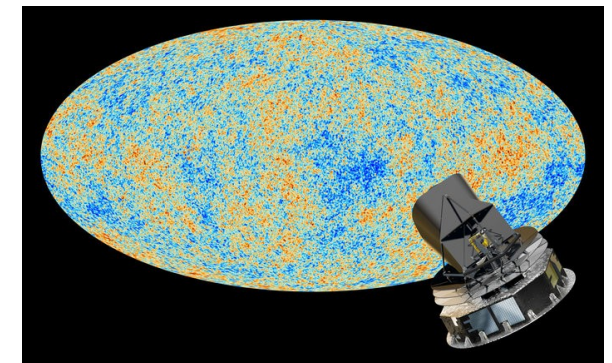
- Cosmology: theory and observations
- Galaxies: formation and evolution
- Stars: evolution and first generation
- Interstellar medium: constituents and astro-chemistry
- Instrumental technics in Astrophysics
- Planetary systems: solar system and exoplanets
- Initiation to Observations
- Physical processes



An innovative programme fully taught in english

aimed at providing students with strong research training, as well as a solid teaching in both fundamental and experimental topics.

By the end of the programme students will have gained valuable professional knowledge allowing them to pursue the best PhD programmes or alternatively to find a job in a company.



Credits: ESA and the Planck collaboration



A 2-year Master degree (M1 & M2)
with
**extensive experience
working in research**

**The Laboratoire d'Astrophysique
de Marseille (LAM)**

<http://www.lam.fr/>

and

**the Laboratoire de Physique des
Interactions Ioniques et Moléculaires
(PIIM)**

<http://piim.univ-amu.fr/>

are the Master's host laboratories



Application procedure opens
in January 2017

Installation grants available to
students first time coming
to Aix Marseille University

Contacts:

Véronique Buat & Patrice Theulé

veronique.buat@lam.fr

patrice.theule@univ-amu.fr



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