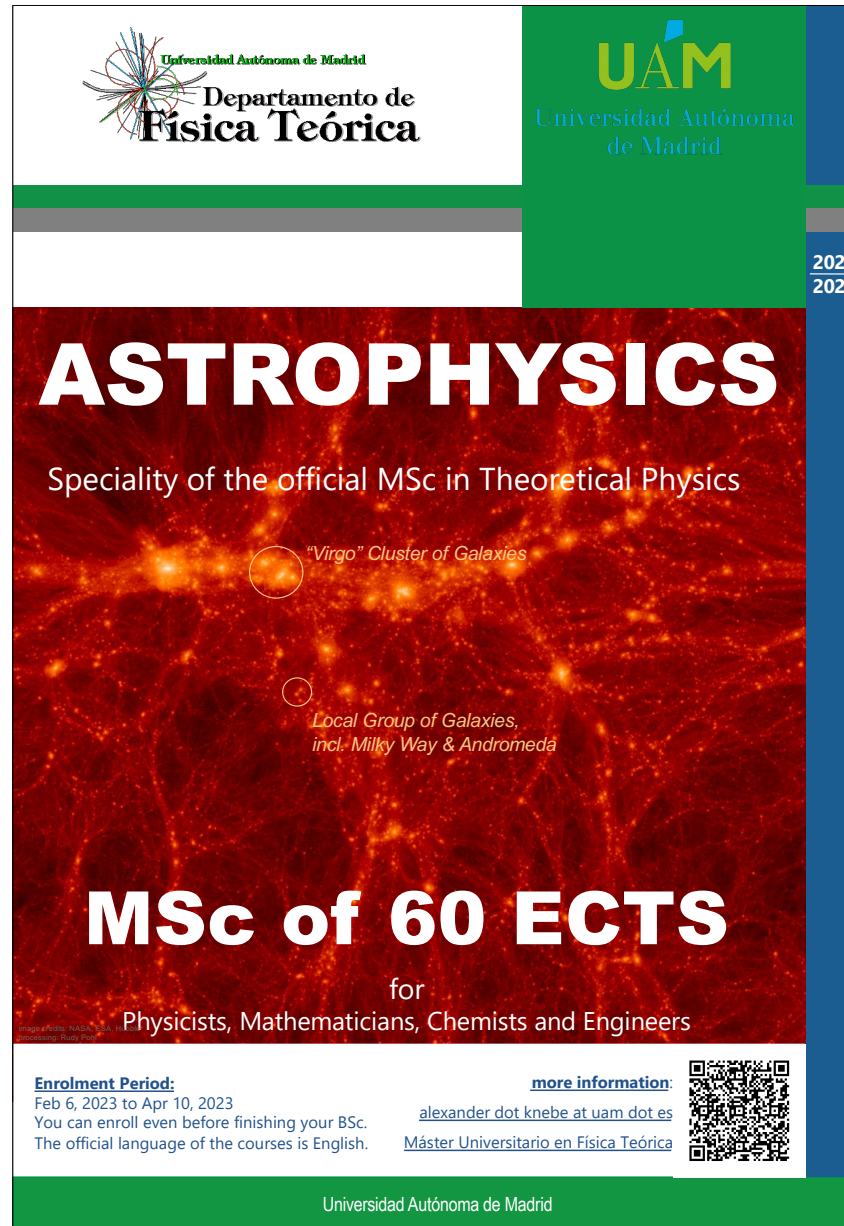


Astrophysics & Cosmology



Universidad Autónoma de Madrid
Departamento de
Física Teórica

UAM
Universidad Autónoma
de Madrid

2023
2024

ASTROPHYSICS

Speciality of the official MSc in Theoretical Physics

"Virgo" Cluster of Galaxies

*Local Group of Galaxies,
incl. Milky Way & Andromeda*


MSc of 60 ECTS

for
Physicists, Mathematicians, Chemists and Engineers

Image credit: NASA, ESA,
European Space Agency

Enrolment Period:
Feb 6, 2023 to Apr 10, 2023
You can enroll even before finishing your BSc.
The official language of the courses is English.

more information:
[alexander dot knebe at uam dot es](mailto:alexander.knebe@uam.es)
[Máster Universitario en Física Teórica](#)



Universidad Autónoma de Madrid

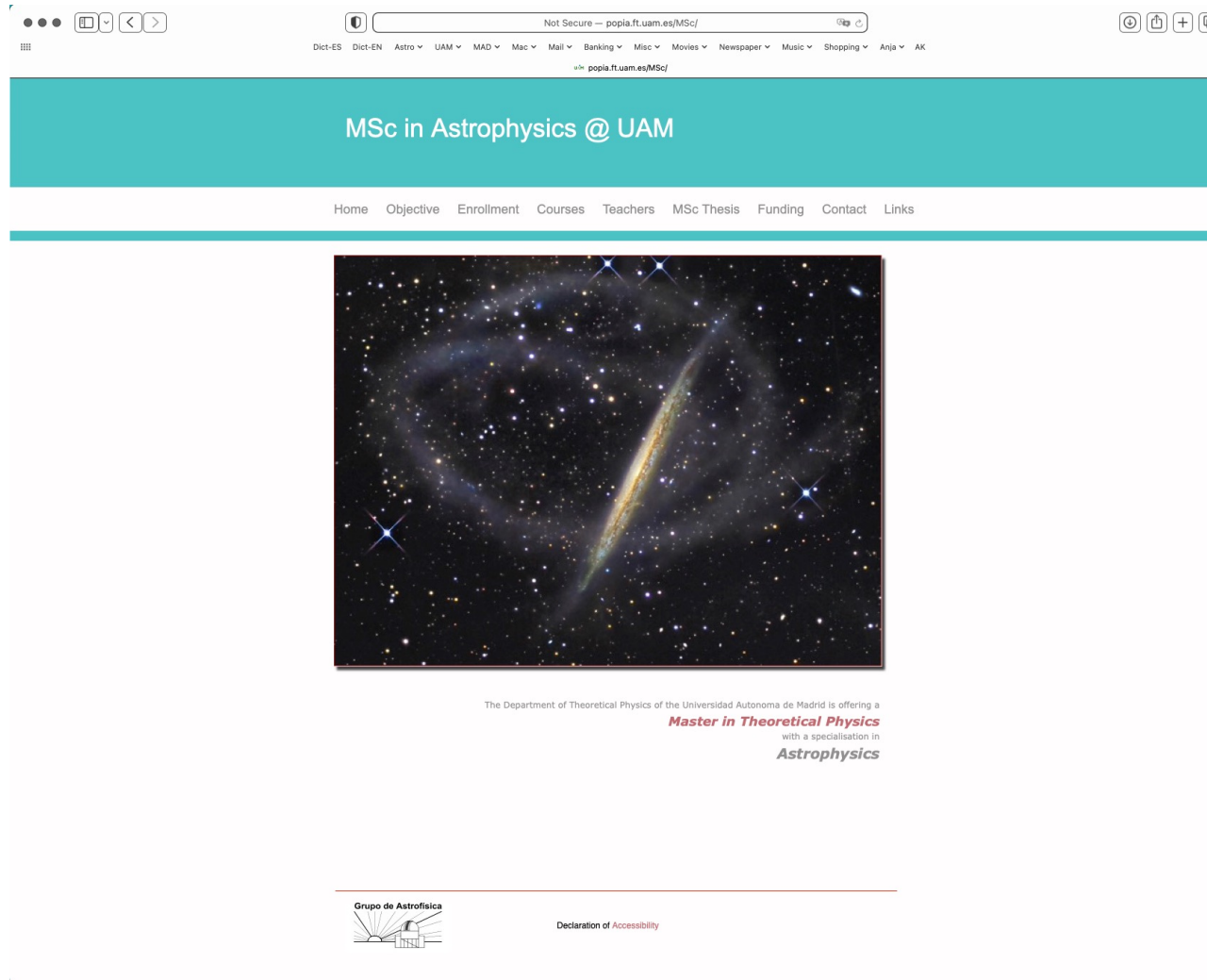
- **website**
- **who & what?**
- **structure**

- **website**

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- **structure**

<http://popia.ft.uam.es/MSc>



<http://www.ft.uam.es/masterastrofisica>

<http://popia.ft.uam.es/MSc>

MSc in Astrophysics @ UAM

Home Objective Enrollment **Courses** Teachers MSc Thesis Funding Contact Links

The master consists of 60 ECTS:
12 credits from the MSc thesis + 30 credits from compulsory subjects + 18 credits from the optional courses.

Compulsory Courses (6 ECTS each):

	acronym
Radiative Processes in Astrophysics	PRA
Observational Techniques	TOA
Stellar Structure & Evolution	EEE
Cosmology	COSMO
Gravitation	GRA
MSc thesis (12 ECTS)	TFM

Optional Courses (6 ECTS each):

Formation & Evolution of Stars and Planets	FEP
Formation & Evolution of Galaxies	FEG
The Interstellar Medium	MEIN
Computational Astrophysics	ACO
Advanced Cosmology	COAv
Astroparticle Physics	ASP

Special Courses:

- Introduction to the Virtual Observatory (2018/19)
- Introduction to the Virtual Observatory (2019/20)
- Introduction to the Virtual Observatory (2020/21)
- Introduction to the Virtual Observatory (2021/22)
- Introduction to the Virtual Observatory (2022/23)
- Introduction to the Virtual Observatory (2023/24)

Thanks to the embedding of this master within Theoretical Physics you can also choose courses from the other speciality; more information can be found [here](#).

Grupo de Astrofísica
Declaration of Accessibility

course websites

<http://www.ft.uam.es/masterastrofisica>

<http://popia.ft.uam.es/MSc>

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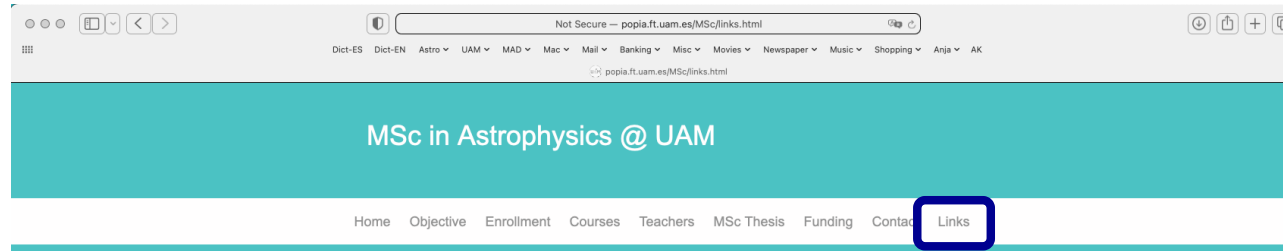
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course websites

Virtual Observatory School

<http://www.ft.uam.es/masterastrofisica>

<http://popia.ft.uam.es/MSc>



this meet+greet presentation

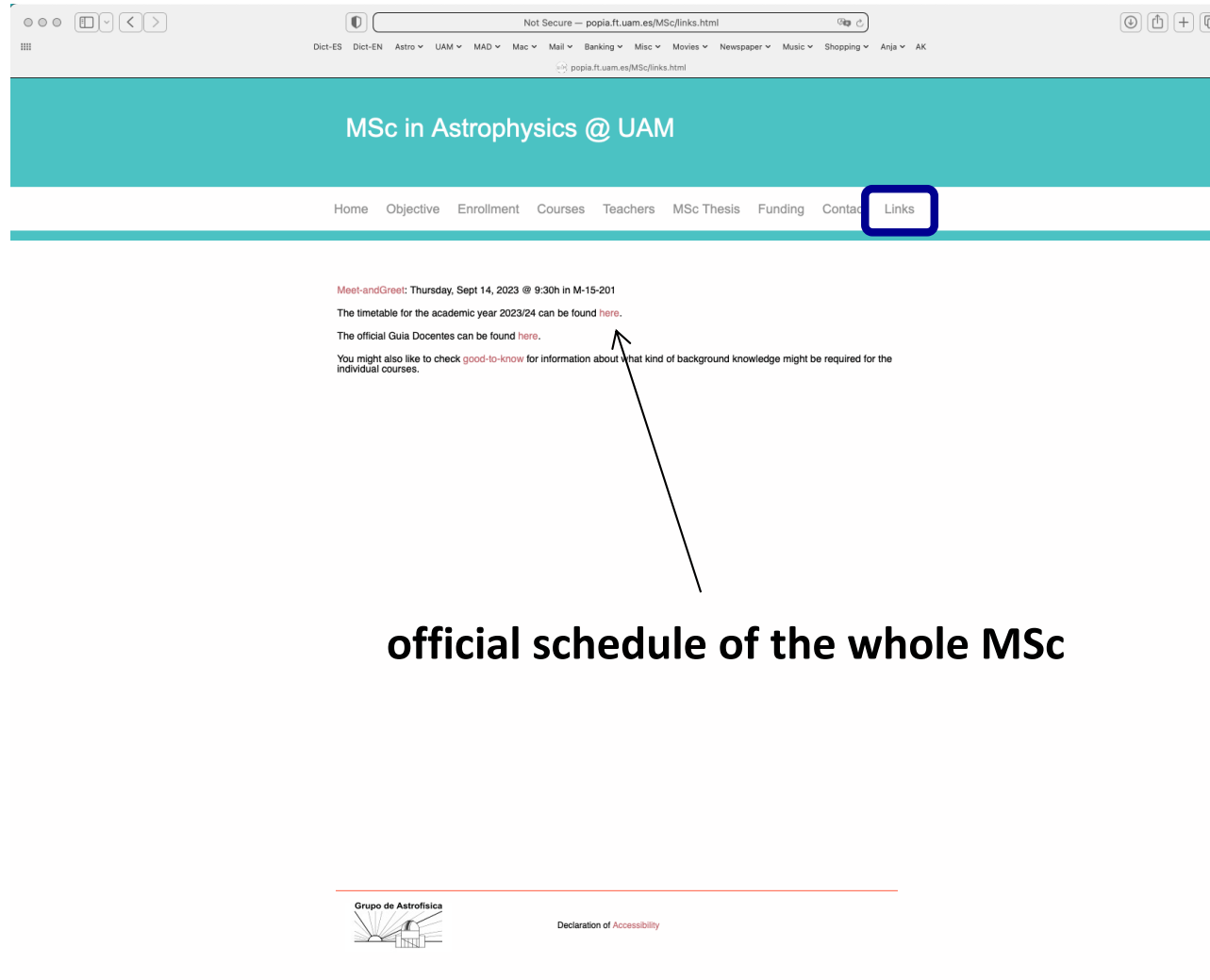
Meet+andGreet: Thursday, Sept 14, 2023 @ 9:30h in M-15-201
The timetable for the academic year 2023/24 can be found [here](#).
The official Guia Docentes can be found [here](#).
You might also like to check [good-to-know](#) for information about what kind of background knowledge might be required for the individual courses.



Declaration of Accessibility

<http://www.ft.uam.es/masterastrofisica>

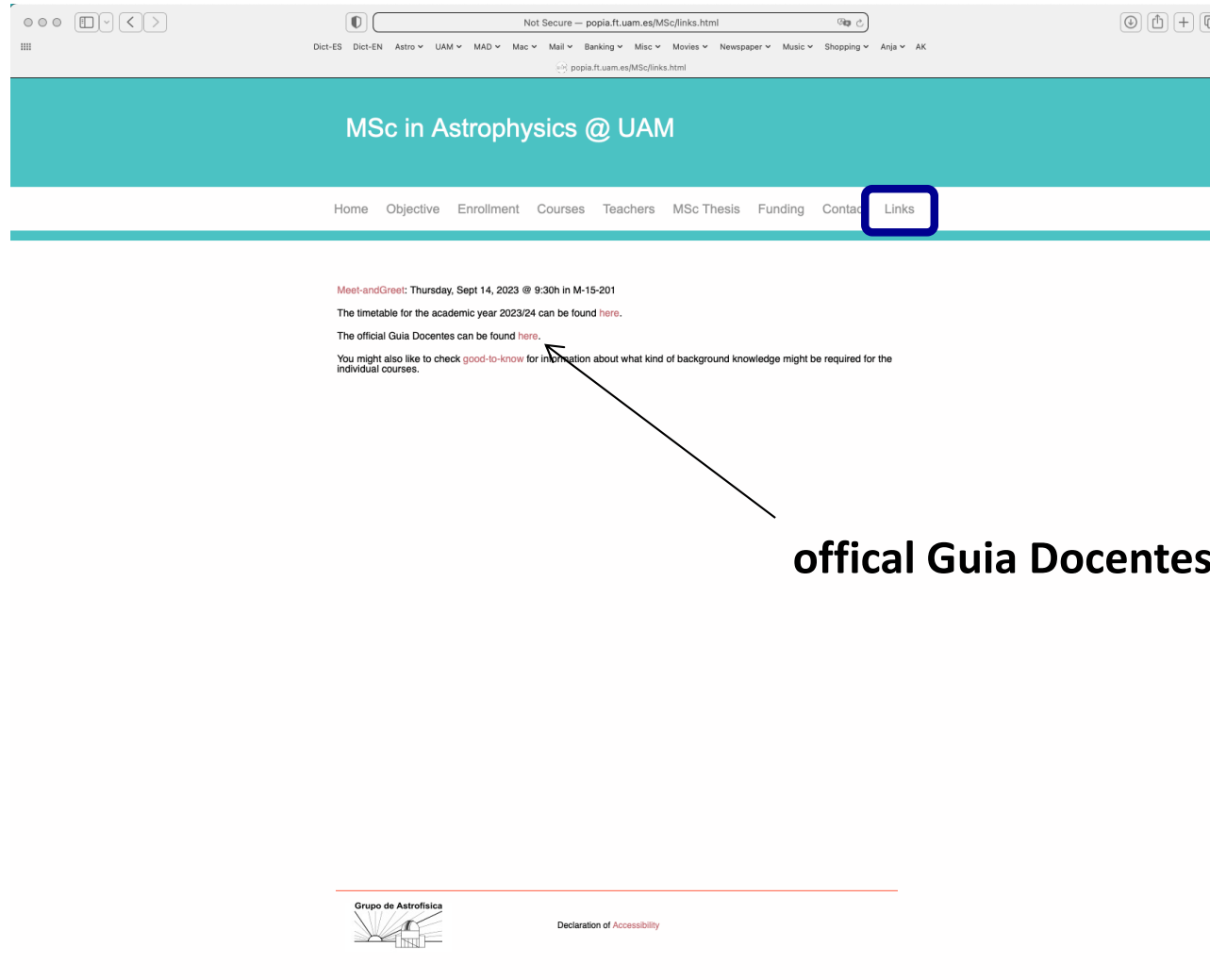
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official schedule of the whole MSc

<http://www.ft.uam.es/masterastrofisica>

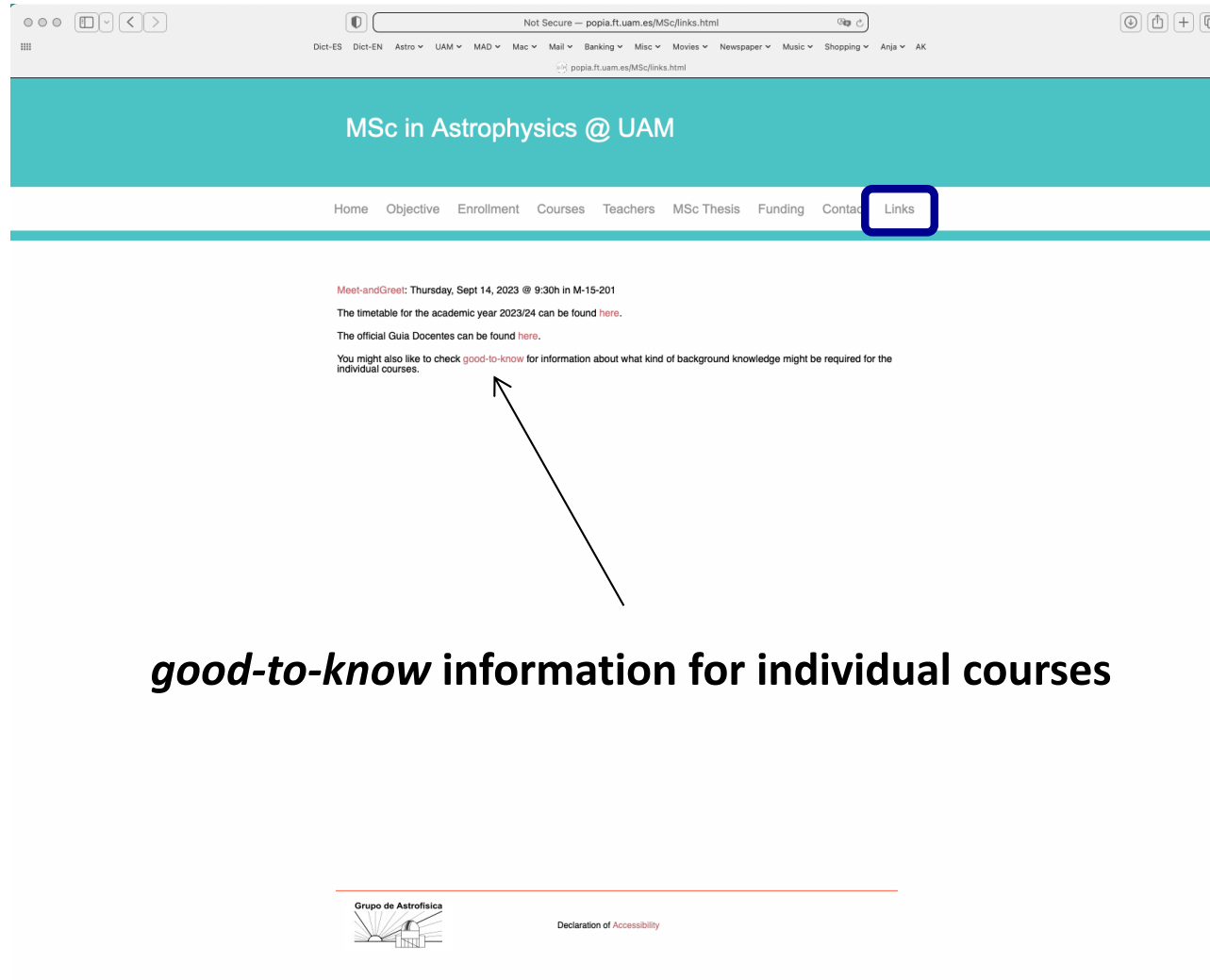
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***good-to-know* information for individual courses**

<http://www.ft.uam.es/masterastrofisica>

<http://popia.ft.uam.es/MSc>

	A	B
1	course	good-to-know
2		
3	<i>obligatory:</i>	
4	GRA	
5	COSMO	- fair understanding of General Relativity
6	PRA	- Python for data analysis/visualisation - Jupyter Notebooks
7	TOA	- Basic knowledge of Linux environment - File transfer with scp; otherwise, we could set up an ftp server. - Python for data analysis/visualisation
8	EEE	
9		
10	<i>optional:</i>	
11	MEIN	
12	COAv	
13	ACO	- revise C knowledge (e.g. http://popia.ft.uam.es/aknebe/page3/compastro/links.html) - basic knowledge of Linux environment: all C coding will be done via a Terminal - python for data analysis/visualisation
14	FEG	
15	FEP	- Jupyter Notebooks - Python for data visualisation, basic knowledge of Linux
16	ASP	- high level programming language (python, C++ or similar)

ses

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MSc in Astrophysics @ UAM

Home Objective Enrollment Courses Teachers **MSc Thesis** Funding Contact Links

Thesis Supervision

All of the members of the **Astrophysics Group @ UAM** are offering the possibility to write the MSc thesis with them. Further, members of the associated centres

CAB-CSIC-INTA (Centro de Astrobiología, Instituto Nacional de Técnica Aeroespacial),
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MSc Thesis offers

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early October 18, 2023 @ 10:00h in M-15-201

Thesis Submission

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[MSc Thesis calls 2022/23](#)
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[TFMpaperworks.zip](#)

Thesis Writing

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[MSc thesis - guide](#)
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Research Areas

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Research Areas

2 calls for presenting TFM

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← **guide and template for MSc thesis**

Please also check the official rules & regulations of the MSc Thesis that can be found [here](#).

Research Areas

<http://www.ft.uam.es/masterastrofisica>

- **website**

- **who & what?**

- **structure**

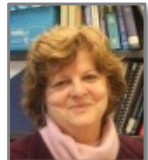
permanent professors



Yago Ascasibar



Angeles Diaz



Rosa Dominguez Tenreiro



Alexander Knebe



Gwendolyn Meeus



Gustavo Yepes

tenure-track fellows



Daniel Ceverino



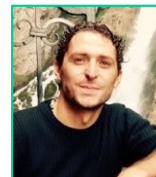
David Cerdeño



Weiguang Cui



Violeta Gonzalez Perez

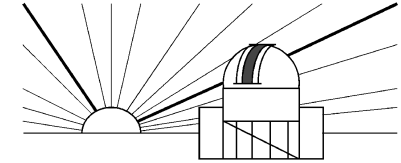


Miguel A. Sanchez Conde

+ postdocs

+ PhD students

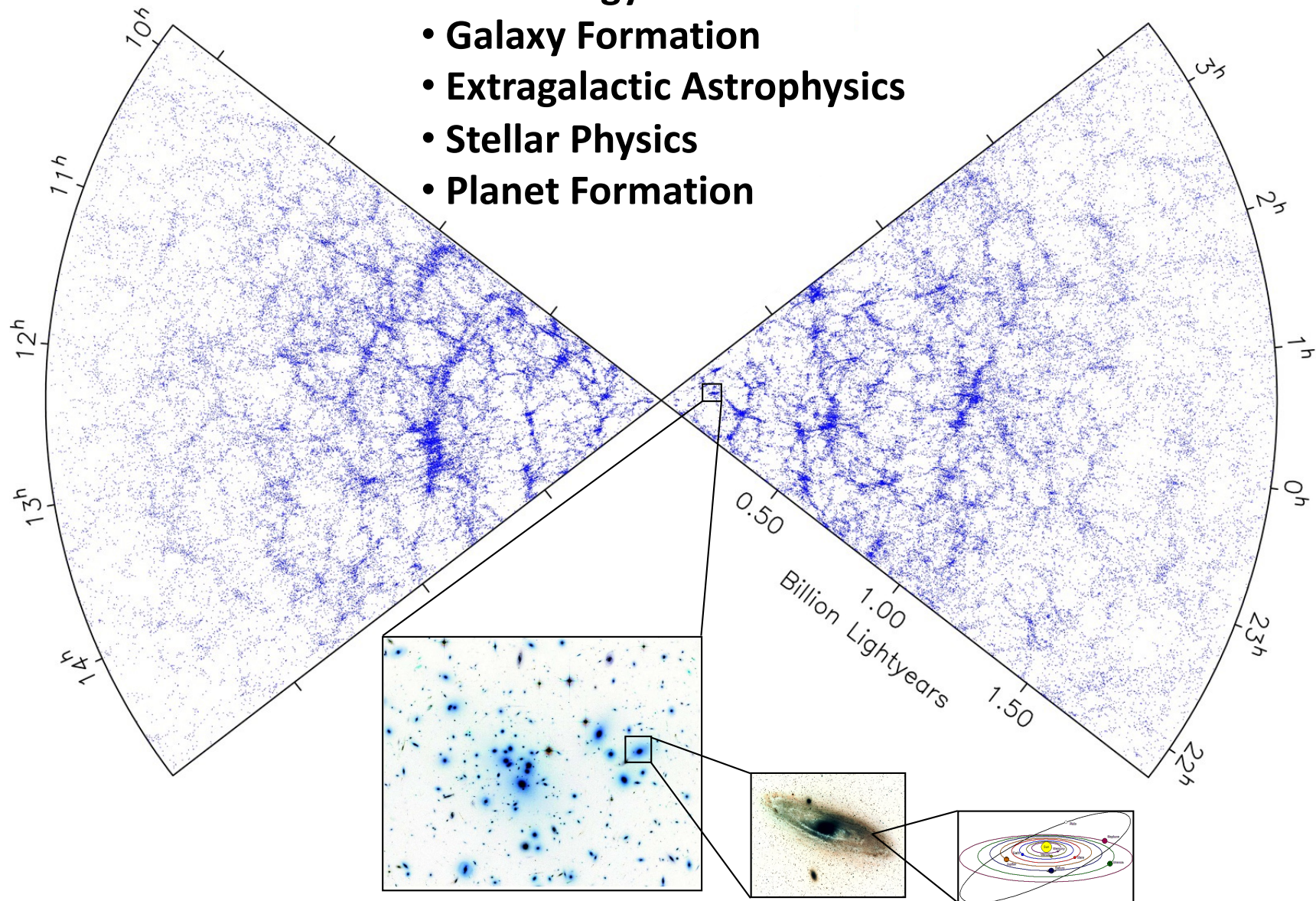
Grupo de Astrofísica



Universidad Autónoma de Madrid
<http://astro.ft.uam.es>

- **Cosmology**
- **Galaxy Formation**
- **Extragalactic Astrophysics**
- **Stellar Physics**
- **Planet Formation**

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▪ **structure**

Master in Theoretical Physics (60 ECTS)

with 2 specialities:

“Particle Physics” & “Astrophysics”

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Credits (60 ECTS in total)

- **30 ECTS from 5 obligatory courses**
- **18 ECTS from 3 optional courses**
- **12 ECTS from master thesis**

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- **18 ECTS from 3 optional courses**
- 12 ECTS from master thesis

offered courses: (6 ECTS / course)

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- **GRA:** Gravitation
- **EEE:** Stellar Structure & Evolution
- **PRA:** Radiative Processes
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- **ASP:** Astroparticle Physics

+ all courses from the Particle Physics speciality!

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} optional courses:
require >4 students!

+ all courses from the Particle Physics speciality!

master thesis (12 ECTS) can be supervised by...

- any member of the (astro) group @ UAM

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- any member of the (astro) group @ UAM

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- any member of ESAC (ESA headquarter Madrid)
- any member of OAN (Observatorio Astronomico Nacional)
- any member of CIEMAT (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas)
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- any member of the Molecular Astrophysics Group (at ICMM, UAM-CSIC)

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a mutual agreement needs to be signed before starting!

master thesis (12 ECTS) can be supervised by...

- any member o
- any member o
- any member o
- any member o
- any member o
- any member o
- any member o

a mutual ag

Not Secure -- popia.ft.uam.es/MSc/msc-thesis.html

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Research Areas

happy bureaucracy...

- **website**
- **who & what?**
- **structure**

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- **who & what?**
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beyond the MSc...

Activities:

- **“Pint of Cosmology”**
 - **Fridays @ 16:00h at the Erasmus Residencia Terraza**
- **various journal clubs (cosmology, gravity, pheno, ...)**
- **seminar talks**
- **“Las Noches Abiertas”:**
 - **public observations at our observatory in M-15**
(contact Angeles Diaz and/or check <http://astro.ft.uam.es> for more details)

Activities:

- **“Pint of Cosmology”**
 - **Fridays @ 16:00h at the Erasmus Residencia Terraza**
- **various journal clubs (cosmology, gravity, pheno, ...)**
- **seminar talks**
- **“Las Noches Abiertas”:**
 - **public observations at our observatory in M-15**
(contact Angeles Diaz and/or check <http://astro.ft.uam.es> for more details)

alumnos-masterastrofisica-ft-l@uam.es : you should get email invitations to these events...

WhatsApp groups:

- **one for the specialty 'Astrophysics' in general**
- **one for each course**

<http://popia.ft.uam.es/MSc>


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Grupo de Astrofísica

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