

The background of the slide is a collage of handwritten physics notes. At the top, there's a graph with a line labeled '-const' and a vertical axis labeled 'S'. To the right, the equation 'V = const' is written. In the center, the text 'YOUR JOURNEY TOWARDS THE FRONTIERS OF KNOWLEDGE STARTS HERE' is overlaid in a white box with yellow text. Below this, on the left, is the name 'Ana Cueto' and below that, 'PARTICLE ITINERARY COORD.' in a green box. At the bottom, there's a graph with a line labeled 'E' and a vertical axis labeled 't', with a label 'Δω' near the line. To the right of this, the equation 'E = mc^2' is written. At the bottom right, the equation 'Ug = UIt = ∫ P dt' is visible.

YOUR JOURNEY TOWARDS THE FRONTIERS OF KNOWLEDGE STARTS HERE

Ana Cueto

PARTICLE ITINERARY COORD.

MASTER'S IN

THEORETICAL PHYSICS

UNIVERSIDAD AUTÓNOMA DE MADRID

**WELCOME,
STUDENTS!**



Instituto de
Física
Teórica



Universidad Autónoma
de Madrid

STRUCTURE OF THE MSC

Particles

Compulsory

QUANTUM FIELD THEORY
STANDARD MODEL

Optional

ADVANCED MATHEMATICS
ADVANCED QUANTUM FIELD THEORY
OPEN PROBLEMS IN THE SM
EXPERIMENTAL PARTICLE PHYSICS
QUANTUM ENTANGLEMENT AND INFORMATION

Astrophysics

Compulsory

RADIATIVE PROCESSES IN ASTROPHYSICS
OBSERVATIONAL TECHNIQUES IN
ASTROPHYSICS
STELLAR STRUCTURE AND EVOLUTION

Optional

COMPUTATIONAL ASTROPHYSICS
GALAXY FORMATION AND EVOLUTION
STARS AND PLANET FORMATION

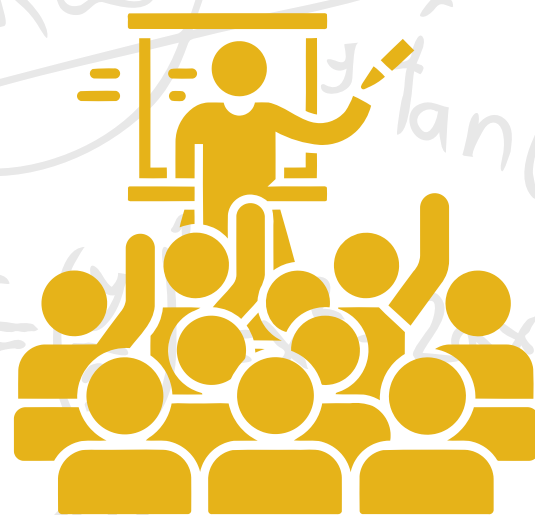
Compulsory common

GRAVITATION
COSMOLOGY

Optional common

ASTROPARTICLE PHYSICS
ADVANCE COSMOLOGY
ADVANCE GRAVITATION

THROUGHOUT THE YEAR....



September 7th -
November 13th

November 30th
February 10th

March 15th
May 21th

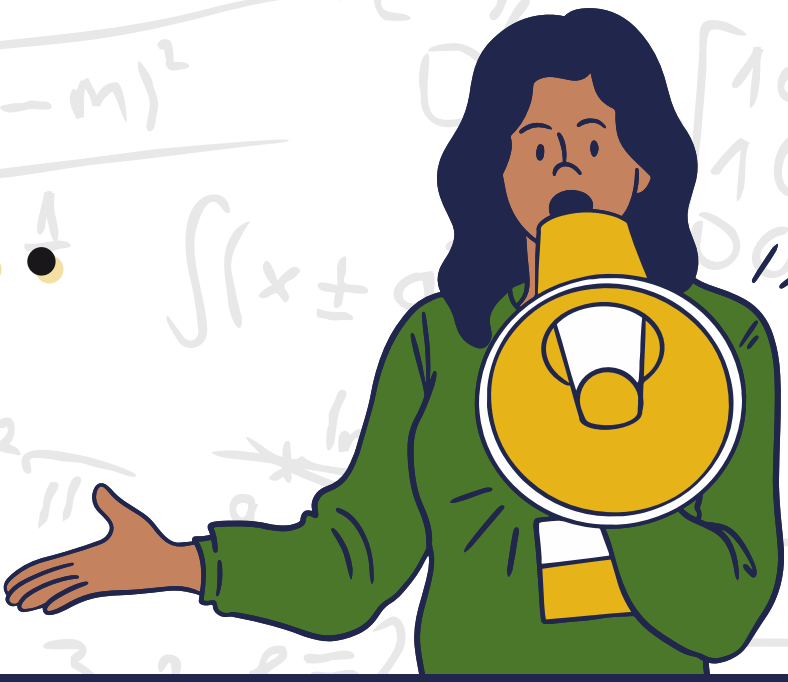


November 16th -
November 27th

March 1 st -
March 12h

May 24th -
May 29th

THROUGHOUT THE YEAR....



The MSc Final Evaluation

SECOND CALL

SEMANA-35 DEL 31 de MAYO al 4 DE JUNIO

HORA	LUNES*	MARTES	MIÉRCOLES	JUEVES	VIERNES
MAÑANA	GRA	QFT	MAV	PRA	TOA
TARDE					

*LIBRE DISPOSICIÓN DEL CENTRO
PAU: 1ª semana de junio (del 31 al 4)

SEMANA 36 DEL 7 AL 11 DE JUNIO

HORA	LUNES	MARTES	MIÉRCOLES	JUEVES	VIERNES
MAÑANA	EEE	COSMO	AQFT	SM	FEP
TARDE					

SEMANA 37 DEL 14 AL 18 DE JUNIO

HORA	LUNES	MARTES	MIÉRCOLES	JUEVES	VIERNES
MAÑANA	ASP	OPSM	COAv	ACO	GRAAv
TARDE					

SEMANA 38 DEL 21 AL 25 DE JUNIO

HORA	LUNES	MARTES	MIÉRCOLES	JUEVES	VIERNES
MAÑANA	QEI	FISExp		FEG	
TARDE					

The MSc Thesis

STEPS

A list of
available topics
will be sent
today

CHOOSE TOPIC

1

The TFM is your
chance to get first-
hand research
experience.

DIVE INTO RESEARCH

3

START YOUR
JOURNEY

Work on the project throughout
the year

2

WRITE YOUR MSC
THESIS

Summarize your
project in a formal
document.

4

CHOOSE YOUR
DEFENSE PERIOD

July or
September

DEFEND YOUR WORK

6

5

Present and discuss
your thesis in front of a
committee.



ACADEMIC INTEGRITY & USE OF GENERATIVE AI

- All students must submit a Responsible Declaration Form together with their Master's Thesis (TFM) before the defence.
- Any use of Generative AI tools must be transparent, critical and responsible, following the rules established by the teaching staff.
- AI-generated information should always be critically reviewed and verified, as it may contain errors or unreliable references.
- Generative AI should support, not replace, your own analysis, creativity and academic work.
- When AI tools are used in academic work, students should acknowledge their use and cite the sources of the information employed

RESOURCES

At the IFT, you are welcome to use the common areas and the library (ground floor) for study or borrow books.



common areas



library

SEMINARS AND COLLOQUIA

You can also attend the seminar series at the IFT and/or DFT:

IFT Seminars

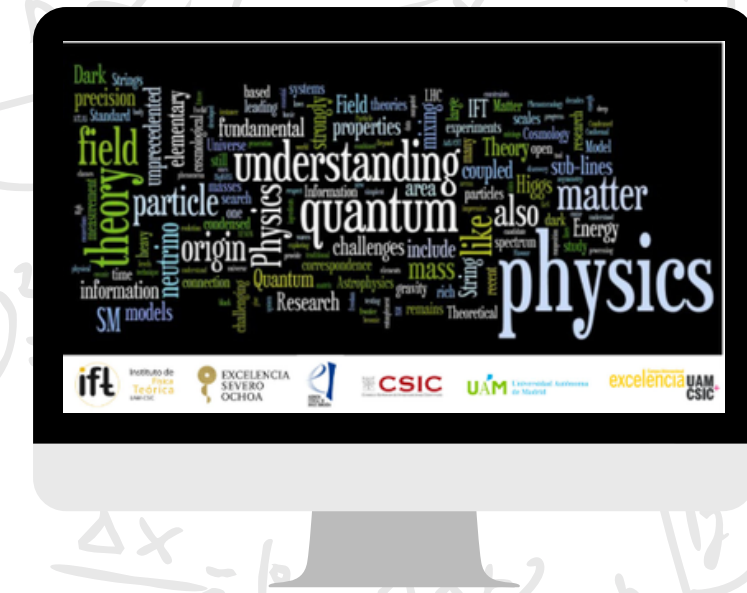
<https://www.ift.uam-csic.es/en/events/seminar>

IFT Colloquia

<https://www.ift.uam-csic.es/en/events/colloquium>

Old Journal Club

<https://www.ift.uam-csic.es/es/events/old-journal-club>



DFT events

<https://www.uam.es/ciencias/facultad/departamentos/fisica-teorica>

CIAFF events

<http://www.ciaff.uam.es/events>

EQUITY, DIVERSITY, AND INCLUSION ON CAMPUS

UAM and IFT as a whole are committed to providing an inclusive and welcoming environment for all: No discrimination based on personal factors including (but not limited to) race, color, national or ethnic origin, alienage, age, religion, creed, sex, sexual orientation, gender identity or expression, marital status, functional diversity, political affiliation or philosophy. UAM and IFT do not tolerate actions that constitute discrimination or harassment.

Gender Equality Unit @UAM

(<https://www.uam.es/uam/unidad-igualdad-genero>)



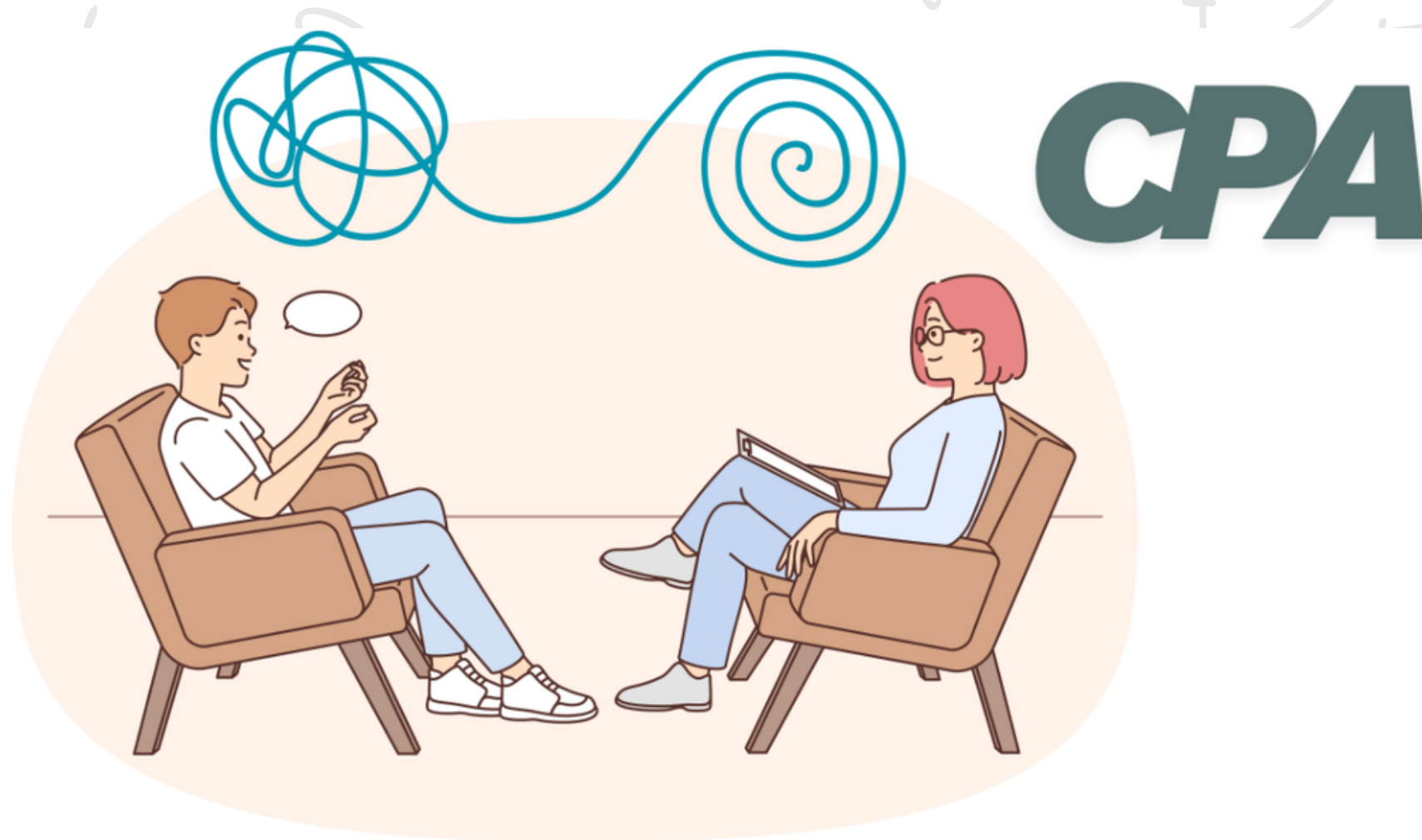
Universidad Autónoma de Madrid

Equity, Diversity, and Inclusion (EDI) Committee @IFT

(<https://members.ift.uam-csic.es/ed/>)



CENTRO DE PSICOLOGÍA APLICADA



If you're a student and need support with stress, anxiety, your studies, or any personal challenge, the CPA at the Faculty of Psychology is here to help. They offer professional care with reduced fees for UAM students and the best part: it's right on campus!

YOUR OPINION IS IMPORTANT FOR US

Fill in the Student Questionnaires at the end of the year!! This is the main way in which we can identify what we can improve!



For any question/comment/problem/suggestion, do not hesitate to contact us:

Ernesto Arganda (Ernesto.arganda@uam.es) Master's Coordinator.

Ana Cueto (anar.cueto@uam.es) Coord. of PEC itinerary.

Yago Ascasibar (yago.ascasibar@uam.es) Coord. of ACF itinerary.



MSc Theoretical Physics

Universidad Autónoma de Madrid