

ACADEMIC YEAR 2025-2026

MASTER IN THEORETICAL PHYSICS

GROUP 280

FIRST TRIMESTER (SEPTEMBER 8 TO NOVEMBER 28)

Subjects

Common obligatory courses:

32880 - Gravitation (GRA): Coordinators: Yashar Akrami

Obligatory courses for the specialty "Elementary Particles and Cosmology":

32550 - Quantum Field Theory (QFT): Coordinator: Carlos Pena

Optional courses orientated to the specialty of "Elementary Particles and Cosmology":

32559 - Advanced Mathematics (MAV): Coordinators: José del Peso and Karl Landsteiner

32562- Quantum Entanglement and Information (QEI): Coordinator: Esperanza López Manzanares

Obligatory courses for the specialty "Astrophysics and Physics of the Cosmos":

32554 - Radiative processes in astrophysics (PRA): Coordinator: Alexander Knebe

32565 - Observational techniques in Astrophysics (TOA): Coordinator: Gwendolyn Meeus

Lectures in the Department of Theoretical Physics (DFT)	M-15-201
Lectures in the Institute of Theoretical Physics (IFT)	Room "GRIS 1"

WEEK 1, SEPTEMBER 8 TO 12

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	QFT	QFT			
11:00 - 12:00	QFT	QFT	MAV		
12:00 - 13:00			MAV	PRA	PRA
13:00 - 14:00				PRA	PRA
15:30 - 16:30	QEI	MAV	QEI		
16:30 - 17:30	QEI	MAV	QEI		

WEEK 2, SEPTEMBER 15 TO 19

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	QFT	QFT			
11:00 - 12:00	QFT	QFT	MAV		
12:00 - 13:00			MAV	PRA	PRA
13:00 - 14:00				PRA	PRA
15:30 - 16:30	QEI	MAV	QEI		
16:30 - 17:30	QEI	MAV	QEI		

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WEEK 3, SEPTEMBER 22 TO 26

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	Inauguration of the MSc in Science 11:30 - 14:30	QFT		TOA*	TOA
11:00 - 12:00		QFT	MAV	TOA*	TOA
12:00 - 13:00			MAV	PRA	PRA
13:00 - 14:00				PRA	PRA
15:30 - 16:30	QEI	MAV	QEI		
16:30 - 17:30	QEI	MAV	QEI		

* Practical TOA sessions will take place at the UAM Observatory (Módulo 15). Some correspond to astronomical observations, and precise dates are subject to meteorological conditions. Additional observations at the Centro Astronómico Hispano-Andaluz in Calar Alto, Almería, will take place in the first trimester of 2025. Evaluation will take place afterwards.

WEEK 4, SEPTEMBER 29 TO OCTOBER 3

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	QFT	QFT			
11:00 - 12:00	QFT	QFT	MAV		
12:00 - 13:00	GRA	GRA	MAV	PRA	PRA
13:00 - 14:00	GRA	GRA		PRA	PRA
15:30 - 16:30	QEI	MAV	QEI	GRA	GRA
16:30 - 17:30	QEI	MAV	QEI	GRA	GRA

WEEK 5, OCTOBER 6 TO 10

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	QFT	QFT		TOA	TOA
11:00 - 12:00	QFT	QFT	MAV	TOA	TOA
12:00 - 13:00	GRA	GRA	MAV	PRA	PRA
13:00 - 14:00	GRA	GRA		PRA	PRA
15:30 - 16:30	QEI	MAV	QEI	GRA	GRA
16:30 - 17:30	QEI	MAV	QEI	GRA	GRA
18:00 - 22:00				TOA** OBSERVATION	

** Practical Session (Prácticas en el Aula)

ACADEMIC YEAR 2025-2026

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WEEK 6, OCTOBER 13 TO 17

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	QFT	QFT		TOA	TOA
11:00 - 12:00	QFT	QFT	MAV	TOA	TOA
12:00 - 13:00	GRA	GRA**	MAV	PRA	PRA
13:00 - 14:00	GRA	GRA**		PRA	PRA
15:30 - 16:30	QEI	MAV	QEI		
16:30 - 17:30	QEI	MAV	QEI		
18:00 - 22:00				TOA** OBSERVATION	

** Practical Session (Prácticas en el Aula)

WEEK 7, OCTOBER 20 TO 24

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	QFT	QFT		TOA	TOA
11:00 - 12:00	QFT	QFT	MAV	TOA	TOA
12:00 - 13:00	GRA	GRA	MAV	PRA	PRA
13:00 - 14:00	GRA	GRA		PRA	PRA
15:30 - 16:30	QEI	MAV	QEI	GRA	
16:30 - 17:30	QEI	MAV	QEI	GRA	

WEEK 8, OCTOBER 27 TO 31

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	QFT	QFT		TOA	TOA
11:00 - 12:00	QFT	QFT	MAV	TOA	TOA
12:00 - 13:00	GRA	GRA	MAV	PRA	PRA
13:00 - 14:00	GRA	GRA		PRA	PRA
15:30 - 16:30	QEI	MAV	QEI		
16:30 - 17:30	QEI	MAV	QEI		

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MASTER IN THEORETICAL PHYSICS

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WEEK 9, NOVEMBER 3 TO 7

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	QFT	QFT	MAV	TOA	TOA
11:00 - 12:00	QFT	QFT	MAV	TOA	TOA
12:00 - 13:00	GRA	GRA	GRA**	PRA	PRA
13:00 - 14:00	GRA	GRA	GRA**	PRA	PRA
15:30 - 16:30	QEI	MAV	QEI		
16:30 - 17:30	QEI	MAV	QEI		

** Practical Session (Prácticas en el Aula)

WEEK 10, NOVEMBER 10 TO 14

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	HOLIDAYS	QFT	QFT	TOA	HOLIDAYS ("FESTIVO FACULTAD")
11:00 - 12:00		QFT	QFT	TOA	
12:00 - 13:00		GRA	MAV	TOA	
13:00 - 14:00		GRA	MAV	TOA	
15:30 - 16:30		MAV	QEI	QEI	
16:30 - 17:30		MAV	QEI	QEI	

WEEK 11, NOVEMBER 17 TO 21 - EVALUATION

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	GRA		MAV		PRA

WEEK 12, NOVEMBER 24 TO 28 - EVALUATION

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	QFT		QEI		

Deadline for first semester and final marks submission: February 4th, 2026

ACADEMIC YEAR 2025-2026

MASTER IN THEORETICAL PHYSICS

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SECOND TRIMESTER (DECEMBER 1 TO MARCH 6)

Common obligatory courses:

32549 - Cosmology (COSMO): Coordinators: Alexander Knebe and Savvas Nesseris

Obligatory courses for the specialty "Elementary Particles and Cosmology"

32879 - Standard Model of Particle Physics (SM): Coordinators: María José Herrero and José Miguel No

SM- Block I: 1/12 – 17/12 (María J. Herrero)

SM-Block II: 8/01 – 21/01 (José Miguel No)

SM-Block III: 27/01 – 11/02 (María J. Herrero)

SM-Block IV: 16/02 – 18/02 (José Miguel No)

Optional courses orientated to the specialty of "Elementary Particles and Cosmology"

32558 - Advanced Quantum Field Theory (AQFT): Coordinator: Gregorio Herdoíza

Obligatory courses for the specialty "Astrophysics and Physics of the Cosmos"

32552 - Stellar Structure and Evolution (EEE): Coordinator: Yago Ascasíbar

Lectures in DFT	M-15-201
Lectures in IFT	Room "GRIS 1"

WEEK 1, DECEMBER 1 TO 5

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 - 10:00	AQFT	AQFT	AQFT		
10:00 - 11:00	AQFT	AQFT	AQFT		
11:00 - 12:00	SM	SM	SM		
12:00 - 13:00	COSMO	COSMO	SM	EEE	EEE
13:00 - 14:00	COSMO	COSMO		EEE	EEE

WEEK 2, DECEMBER 8 TO 12

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 - 10:00	HOLIDAYS	AQFT	AQFT		
10:00 - 11:00		AQFT	AQFT		
11:00 - 12:00		SM	SM	SM	
12:00 - 13:00		COSMO	SM	EEE	EEE
13:00 - 14:00		COSMO		EEE	EEE

WEEK 3, DECEMBER 15 TO 19

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 - 10:00		AQFT	AQFT		
10:00 - 11:00		AQFT	AQFT		
11:00 - 12:00	SM	SM	SM		
12:00 - 13:00	COSMO	COSMO	SM	EEE	EEE
13:00 - 14:00	COSMO	COSMO		EEE	EEE

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WEEK 4, JANUARY 5 TO 9

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 - 10:00	HOLIDAYS	HOLIDAYS	HOLIDAYS	AQFT	
10:00 - 11:00				AQFT	
11:00 - 12:00				SM	
12:00 - 13:00				SM	
13:00 - 14:00					

WEEK 5, JANUARY 12 TO 16

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 - 10:00		AQFT	AQFT		
10:00 - 11:00	SM	AQFT	AQFT		
11:00 - 12:00	SM	SM	SM		
12:00 - 13:00	COSMO	COSMO	SM	EEE	EEE
13:00 - 14:00	COSMO	COSMO		EEE	EEE

WEEK 6, JANUARY 19 TO 23

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 - 10:00		AQFT	AQFT		
10:00 - 11:00	SM	AQFT	AQFT		
11:00 - 12:00	SM	SM	SM		
12:00 - 13:00	COSMO	COSMO	SM	EEE	EEE
13:00 - 14:00	COSMO	COSMO		EEE	EEE

WEEK 7, JANUARY 26 TO 30

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 - 10:00	HOLIDAYS (UAM)	AQFT	AQFT		
10:00 - 11:00		AQFT	AQFT		
11:00 - 12:00		SM	SM		
12:00 - 13:00		COSMO	SM	EEE	EEE
13:00 - 14:00		COSMO		EEE	EEE

WEEK 8, FEBRUARY 2 TO 6

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 - 10:00		AQFT	AQFT		
10:00 - 11:00	SM	AQFT	AQFT		
11:00 - 12:00	SM	SM	SM		
12:00 - 13:00	COSMO	COSMO	SM	EEE	EEE
13:00 - 14:00	COSMO	COSMO		EEE	EEE

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WEEK 9, FEBRUARY 9 TO 13

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 - 10:00		AQFT	AQFT		
10:00 - 11:00		AQFT	AQFT		
11:00 - 12:00	SM	SM	SM		
12:00 - 13:00	COSMO	COSMO	SM	EEE	EEE
13:00 - 14:00	COSMO	COSMO		EEE	EEE

WEEK 10, FEBRUARY 16 TO 20

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 - 10:00		AQFT	AQFT		
10:00 - 11:00		AQFT	AQFT		
11:00 - 12:00	SM	SM	SM		
12:00 - 13:00	COSMO	COSMO	SM	EEE	EEE
13:00 - 14:00	COSMO	COSMO		EEE	EEE

WEEK 11, FEBRUARY 23 TO 27

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning			AQFT	SM	

WEEK 12, MARCH 2 TO 6

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	COSMO	EEE			

Deadline for second trimester and final marks submission: June 4th, 2026

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THIRD TRIMESTER (MARCH 9 TO MAY 29)

Optional courses for both specialties:

32555 - *Astroparticle Physics (ASP)*: Coordinators: David Cerdeño and Miguel Sanchez-Conde

32556 - *Advanced Cosmology (COAv)*: Coordinator: Gustavo Yepes

33436 - *Advanced Gravitation (GRAAv)*: Coordinator: Tomás Ortín

Optional courses orientated to the specialty of "Elementary Particles and Cosmology":

32560 - *Open Problems in the Standard Model (OPSM)*: Coordinator: Luca Merlo

32561 - *Experimental Particle Physics (FISExp)*: Coordinators: Jorge de Trocóniz, Claudia Glasman, Juan Terrón

Optional courses orientated to the specialty of "Astrophysics and Physics of the Cosmos":

32566 - *Computational Astrophysics (ACO)*: Coordinator: Weiguang Cui

32563 - *Galaxy Formation and Evolution (FEG)*: Coordinator: Daniel Ceverino

Lectures in DFT ("FISExp": Aula 01.15.SS.300)	M-15-201 (M-15-300)
Lectures in IFT	Room "GRIS 1"

WEEK 1, MARCH 9 TO 13

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	ASP	ASP	CoAV		CoAV
11:00 - 12:00	ASP	ASP	CoAV		CoAv
12:00 - 13:00	OPSM	OPSM		FEG	FEG
13:00 - 14:00	OPSM	OPSM		FEG	FEG
15:00 - 16:00	FISExp	FISExp	GRAAv	GRAAv	
16:00 - 17:00	FISExp	FISExp	GRAAv	GRAAv	

WEEK 2, MARCH 16 TO 20

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	ASP	ASP	CoAV	ACO	CoAV
11:00 - 12:00	ASP	ASP	CoAV	ACO	CoAv
12:00 - 13:00	OPSM	OPSM		FEG	FEG
13:00 - 14:00	OPSM	OPSM		FEG	FEG
15:00 - 16:00	FISExp	FISExp	GRAAv	GRAAv	ACO
16:00 - 17:00	FISExp	FISExp	GRAAv	GRAAv	ACO

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WEEK 3, MARCH 23 TO 27

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	ASP	ASP	CoAV	ACO	CoAV
11:00 - 12:00	ASP	ASP	CoAV	ACO	CoAv
12:00 - 13:00	OPSM	OPSM	GRAAv	FEG	FEG
13:00 - 14:00	OPSM	OPSM	GRAAv	FEG	FEG
15:00 - 16:00	FISExp	FISExp	GRAAv	GRAAv	ACO
16:00 - 17:00	FISExp	FISExp	GRAAv	GRAAv	ACO

MARCH 30 TO APRIL 3

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
HOLIDAYS (EASTER)					

WEEK 4, APRIL 6 TO 10

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	HOLIDAYS (EASTER)	ASP	CoAV	ACO	CoAV
11:00 - 12:00		ASP	CoAV	ACO	CoAv
12:00 - 13:00		OPSM	OPSM	FEG	FEG
13:00 - 14:00		OPSM	OPSM	FEG	FEG
15:00 - 16:00		FISExp	GRAAv	GRAAv	ACO
16:00 - 17:00		FISExp	GRAAv	GRAAv	ACO

WEEK 5, APRIL 13 TO 17

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	ASP	ASP	CoAV	ACO	CoAV
11:00 - 12:00	ASP	ASP	CoAV	ACO	CoAv
12:00 - 13:00	OPSM	OPSM	OPSM	FEG	FEG
13:00 - 14:00	OPSM	OPSM	OPSM	FEG	FEG
15:00 - 16:00	FISExp	FISExp*	GRAAv	GRAAv	ACO
16:00 - 17:00	FISExp	FISExp*	GRAAv	GRAAv	ACO
17:00 - 18:00		FISExp*			

* Group Tutorials (Tutorías en Grupo)

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WEEK 6, APRIL 20 TO 24

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	ASP	ASP	CoAV	ACO	
11:00 - 12:00	ASP	ASP	CoAV	ACO	
12:00 - 13:00	OPSM	OPSM		FEG	FEG
13:00 - 14:00	OPSM	OPSM		FEG	FEG
15:00 - 16:00	FISExp*	FISExp*	GRAAv	GRAAv	ACO
16:00 - 17:00	FISExp*	FISExp*	GRAAv	GRAAv	ACO
17:00 - 18:00	FISExp*	FISExp*			

* Group Tutorials (Tutorías en Grupo)

WEEK 7, APRIL 27 TO MAY 1

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	ASP	ASP	CoAV	ACO	HOLIDAYS (WORKERS DAY)
11:00 - 12:00	ASP	ASP	CoAV	ACO	
12:00 - 13:00	OPSM	OPSM	GRAAv	FEG	
13:00 - 14:00	OPSM	OPSM	GRAAv	FEG	
15:00 - 16:00	FISExp*	FISExp*	GRAAv	GRAAv	
16:00 - 17:00	FISExp*	FISExp*	GRAAv	GRAAv	
17:00 - 18:00	FISExp*	FISExp*			

* Group Tutorials (Tutorías en Grupo)

WEEK 8, MAY 4 TO 8

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	ASP	ASP	CoAV	ACO	
11:00 - 12:00	ASP	ASP	CoAV	ACO	
12:00 - 13:00	OPSM	OPSM	OPSM	FEG	FEG
13:00 - 14:00	OPSM	OPSM	OPSM	FEG	FEG
15:00 - 16:00	FISExp*	FISExp*	GRAAv	GRAAv	ACO
16:00 - 17:00	FISExp*	FISExp*	GRAAv	GRAAv	ACO
17:00 - 18:00	FISExp*	FISExp*			

* Group Tutorials (Tutorías en Grupo)

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WEEK 9, MAY 11 TO 15

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	ASP	ASP	CoAV	ACO	HOLIDAYS (SAN ISIDRO)
11:00 - 12:00	ASP	ASP	CoAV	ACO	
12:00 - 13:00	OPSM	OPSM	OPSM	FEG	
13:00 - 14:00	OPSM	OPSM	OPSM	FEG	
15:00 - 16:00	FISExp*	FISExp*	GRAAv	GRAAv	
16:00 - 17:00	FISExp*	FISExp*	GRAAv	GRAAv	
17:00 - 18:00	FISExp*	FISExp*			

* Group Tutorials (Tutorías en Grupo)

WEEK 10, MAY 18 TO 22

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00	ASP	ASP	CoAV	ACO	
11:00 - 12:00	ASP	ASP	CoAV	ACO	
12:00 - 13:00	OPSM	OPSM		FEG	FEG
13:00 - 14:00	OPSM	OPSM		FEG	FEG
15:00 - 16:00	FISExp*	FISExp*	GRAAv	GRAAv	ACO
16:00 - 17:00	FISExp*	FISExp*	GRAAv	GRAAv	ACO
17:00 - 18:00	FISExp*	FISExp*			

* Group Tutorials (Tutorías en Grupo)

WEEK 11, MAY 25 TO 29

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	OPSM	COAv	ASP	ACO	FEG
afternoon	GRAAv		FISExp		

Deadline for third trimester and final marks submission: June 4th, 2026

MASTER THESIS

Ordinary call: JULY 1st TO 6th, 2026 – PRESENTATION TFM

Deadline for MSc thesis marks submission: July 9th, 2026

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MASTER IN THEORETICAL PHYSICS

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FINAL EVALUATION (SECOND CALL)

JUNE 1 TO 5

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
MORNING	GRA	QFT	MAV	PRA	TOA
AFTERNOON					
	At the Centre's discretion	POSSIBLE EXAMS EvAU 2026			

JUNE 8 TO 12

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
MORNING	EEE	COSMO	AQFT	SM	FEP
AFTERNOON					

JUNE 15 TO 19

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
MORNING	ASP	OPSM	COAv	ACO	GRAAv
AFTERNOON					

JUNE 22 TO 26

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
MORNING	QEI	FisExp		FEG	
AFTERNOON					

Deadline for final marks submission: July 1st, 2026

MASTER THESIS

Second call: WEEK SEPTEMBER 7th TO 11th - PRESENTATIONS TFM

Deadline for final marks submission (Master Thesis), until September 22nd, 2026