

FIRST TRIMESTER (SEPTEMBER 11th TO DECEMBER 1st)

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: German Sierra

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 (Aula 01.08.SS.300)	M-15-201
Lectures in the Institute of Theoretical Physics (IFT)	Room “GRIS 1”

WEEK-1, SEPTEMBER 11th TO 15th

TIME TABLE	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		

*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 2023. Evaluation will take place afterwards.

WEEK-2, SEPTEMBER 18th TO 22nd

TIME TABLE	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		
16:30-17:30	QEI	MAV	QEI		

MASTER IN THEORETICAL PHYSICS

GROUP 280

WEEK-3, SEPTEMBER 25th TO 29th

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

** Practical Session (Prácticas en el Aula)

WEEK-4, OCTOBER 2nd TO 6th

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	QFT	QFT			TOA
11:00-12:00	QFT	QFT	MAV		TOA
12:00-13:00	GRA	GRA	MAV	PRA	PRA
13:00-14:00	GRA	GRA		PRA	PRA
15:00-16:00	QEI	MAV	QEI		
16:00-17:00	QEI	MAV	QEI		
19:00 - 21:00			TOA** OBSERVATION		

** Practical Session (Prácticas en el Aula)

WEEK-5, OCTOBER 9th TO 13th

TIME TABLE	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
13:00-14:00	GRA	GRA			PRA
15:30-16:30	QEI	MAV	QEI		
16:30-17:30	QEI	MAV	QEI		

WEEK-6, OCTOBER 16th TO 20th

TIME TABLE	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**	MAV	PRA	PRA
15:30-16:30	QEI		QEI		
16:30-17:30	QEI		QEI		
19:00 - 21:00			TOA** OBSERVATION		

** Practical Session (Prácticas en el Aula)

MASTER IN THEORETICAL PHYSICS

GROUP 280

WEEK-7, OCTOBER 23rd TO 27th

TIME TABLE	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	MAV	PRA	PRA
15:30-16:30	QEI		QEI		
16:30-17:30	QEI		QEI		

WEEK-8, OCTOBER 30th TO NOVEMBER 3rd

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

WEEK-9, NOVEMBER 6th TO NOVEMBER 10th

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

** Practical Session (Prácticas en el Aula)

WEEK-10, NOVEMBER 13th TO 17th

TIME TABLE	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	MAV	PRA	PRA
15:30-16:30	QEI		QEI		
16:30-17:30	QEI		QEI		

WEEK-11, NOVEMBER 20st TO 24th – EVALUATION

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning		GRA	MAV	PRA	

WEEK-12, NOVEMBER 27th TO DECEMBER 1nd

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	QFT		QEI		

Deadline for first semester and final marks submission: February 7th, 2023

SECOND TRIMESTER (DECEMBER 4 TO MARCH 18)

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: 5/12 – 10/01 (Maria J. Herrero)

SM-Block II: 11/01 – 07/02 (José Miguel No)

SM-Block III: 08/02 – 28/02 (Maria J. Herrero)

SM-Block IV: 01/03 – 02/03 (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: Nataly Ospina

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

32564 - *Stars and Planets Formation (FEP)*: Coordinator: Gwendolyn Meeus

32553 – *Interstellar Medium (MEIN)*: Coordinator: Ángeles Díaz

Lectures (Aula 01.08.SS.300)	M-15-201
Lectures in the Institute of Theoretical Physics (IFT)	Room “GRIS 1”

WEEK-1, DECEMBER 4th TO 8th

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-10:00		AQFT	HOLIDAYS	HOLIDAYS	HOLIDAYS
10:00-11:00		AQFT			
11:00-12:00	SM	SM			
12:00-13:00	SM	COSMO			
13:00-14:00		COSMO			
15:00-16:00					
16:00-17:00	COSMO				
17:00-18:00	COSMO				

WEEK-2, DECEMBER 11th TO 15th

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-10:00		AQFT	AQFT		
10:00-11:00		AQFT	AQFT	FEP	FEP
11:00-12:00	SM	SM	SM	FEP	FEP
12:00-13:00		COSMO	SM	EEE	EEE
13:00-14:00		COSMO		EEE	EEE
15:00-16:00					
16:00-17:00	COSMO			MEIN	MEIN
17:00-18:00	COSMO			MEIN	MEIN

MASTER IN THEORETICAL PHYSICS

GROUP 280

WEEK-3, DECEMBER 18th to 22nd

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-10:00		AQFT	AQFT		
10:00-11:00		AQFT	AQFT	FEP	FEP
11:00-12:00	SM	SM	SM	FEP	FEP
12:00-13:00		COSMO	SM	EEE	EEE
13:00-14:00		COSMO		EEE	EEE
15:00-16:00					
16:00-17:00	COSMO			MEIN	MEIN
17:00-18:00	COSMO			MEIN	MEIN

WEEK-4, JANUARY 8th TO 12th

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-10:00		AQFT	AQFT		
10:00-11:00		AQFT	AQFT	FEP	FEP
11:00-12:00	SM	SM	SM	FEP	FEP
12:00-13:00		COSMO	SM	EEE	EEE
13:00-14:00		COSMO		EEE	EEE
15:00-16:00			FEP		
16:00-17:00	COSMO**		FEP	MEIN	MEIN
17:00-18:00	COSMO**			MEIN	MEIN

** Practical Session (Prácticas en el Aula)

WEEK-5, JANUARY 15th TO 19th

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-10:00		AQFT	AQFT		
10:00-11:00		AQFT	AQFT	FEP	FEP
11:00-12:00	SM	SM	SM	FEP	FEP
12:00-13:00		COSMO	SM	EEE	EEE
13:00-14:00		COSMO		EEE	EEE
15:00-16:00					
16:00-17:00	COSMO			MEIN	MEIN
17:00-18:00	COSMO			MEIN	MEIN

MASTER IN THEORETICAL PHYSICS

GROUP 280

WEEK-6, JANUARY 22nd TO JANUARY 26th

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-10:00		AQFT	HOLIDAYS	HOLIDAYS	HOLIDAYS
10:00-11:00		AQFT			
11:00-12:00	SM	SM			
12:00-13:00		COSMO			
13:00-14:00		COSMO			
15:00-16:00					
16:00-17:00	COSMO**				
17:00-18:00	COSMO**				

** Practical Session (Prácticas en el Aula)

WEEK-7, JANUARY 29th TO FEBRUARY 2nd

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
9:00-10:00	HOLIDAYS	AQFT	AQFT			
10:00-11:00		AQFT	AQFT	FEP	FEP	
11:00-12:00		SM	SM	FEP	FEP	
12:00-13:00		COSMO	SM	EEE	EEE	
13:00-14:00		COSMO		EEE	EEE	
15:00-16:00						
16:00-17:00					MEIN	MEIN
17:00-18:00					MEIN	MEIN

WEEK-8, FEBRUARY 5th TO 9th

TIME TABLE	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	SM	EEE	EEE
13:00-14:00		COSMO		EEE	EEE
15:00-16:00					
16:00-17:00	COSMO**			MEIN	MEIN
17:00-18:00	COSMO**			MEIN	MEIN

** Practical Session (Prácticas en el Aula)

WEEK-9, FEBRUARY 12th TO 16th

TIME TABLE	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	SM	EEE	EEE
13:00-14:00		COSMO		EEE	EEE
15:00-16:00			FEP		
16:00-17:00	COSMO		FEP	MEIN	MEIN
17:00-18:00	COSMO			MEIN	MEIN

MASTER IN THEORETICAL PHYSICS

GROUP 280

WEEK-10, FEBRUARY 19th TO FEBRUARY 23rd

TIME TABLE	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	SM	EEE	EEE
13:00-14:00		COSMO		EEE	EEE
15:00-16:00					
16:00-17:00	COSMO**			MEIN	MEIN
17:00-18:00	COSMO**			MEIN	MEIN

** Practical Session (Prácticas en el Aula)

WEEK-11, FEBRUARY 26th TO MARCH 1st

TIME TABLE	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			SM		
13:00-14:00					
15:00-16:00			FEP	FEP	FEP
16:00-17:00			FEP	FEP	FEP
17:00-18:00					

WEEK-13, MARCH 4th TO 8th - EVALUATION

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	COSMO		AQFT		

WEEK-14, MARCH 11th TO 15th

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	SM	FEP		EEE	

Deadline for second trimester and final marks submission: June 6th, 2023

THIRD TRIMESTER (MARCH 20 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 Ortón

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

32560 - *Open Problems in the Standard Model (OPSM)*: Coordinator: Enrique Fernández Martínez

32561 - *Experimental Particle Physics (FISExp)*: Coordinators: Jorge de Troconiz, 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 Faculty of Science (Aula 01.08.SS.300) ("FISExp": Aula 01.15.SS.300)	M-15-201 (M-15-300)
Lectures in the Institute of Theoretical Physics (IFT)	Room "GRIS 1"

WEEK-1, MARCH 18th TO 22nd

TIME TABLE	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

WEEK MARCH 25th TO 29th - Easter Holidays

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	EASTER HOLIDAYS				

WEEK-2, APRIL 1st TO 5th

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	HOLIDAYS	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

MASTER IN THEORETICAL PHYSICS

GROUP 280

WEEK-3, APRIL 8th TO 12th

TIME TABLE	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

WEEK-4, APRIL 15th TO 19th

TIME TABLE	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

WEEK-5, APRIL 22nd TO 26th

TIME TABLE	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
		FISExp*			

* Group Tutorials (Tutorías en Grupo)

WEEK-6, APRIL 29th TO MAY 3rd

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

* Group Tutorials (Tutorías en Grupo)

MASTER IN THEORETICAL PHYSICS

GROUP 280

WEEK-7, MAY 6th TO 10th

TIME TABLE	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
	FISExp*	FISExp*			

* Group Tutorials (Tutorías en Grupo)

WEEK-8, MAY 13th TO 17th

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	ASP	ASP	HOLIDAYS	ACO	CoAV
11:00-12:00	ASP	ASP		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	ACO
16:00-17:00	FISExp*	FISExp*		GRAAv	ACO
	FISExp*	FISExp*			

* Group Tutorials (Tutorías en Grupo)

WEEK-9, MAY 20th TO 24th – EVALUATION

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

Deadline for third trimester and final marks submission: June 6th, 2024

MASTER THESIS

Ordinary call: WEEK JULY 3rd TO 7th, 2024 – PRESENTATION TFM

Deadline for MSc thesis marks submission: July 5th, 2024

FINAL EVALUATION (SECOND CALL)

WEEK MAY 27th TO MAY 31st

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
MORNING	GRA	QFT	MAV	PRA	TOA
AFTERNOON					

WEEK JUNE 3rd TO JUNE 7th

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
MORNING	At the Centre's discretion	POSSIBLE EXAMS EvAU 2022			EEE
AFTERNOON					

WEEK JUNE 17th TO 21st

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

WEEK JUNE 24th TO 29th

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

WEEK JUNE 27th TO JULY 1st

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
MORNING	QEI	FisExp		FEG	
AFTERNOON					

Deadline for final marks submission: July 3rd, 2024

MASTER THESIS

Second call: WEEK SEPTEMBER 2nd TO 6th - PRESENTATIONS TFM

Deadline for final marks submission (Master Thesis), until September 19th, 2024