

**FIRST TRIMESTER (SEPTEMBER 11 TO DECEMBER 8)**

**Common obligatory courses:**

32880 - *Gravitation (GRA)*: Coordinators: Tomás Ortín and Rosa Domínguez Tenreiro

**Obligatory courses for the speciality “Elementary Physics and Cosmology”:**

32550 - *Quantum Field Theory (QFT)*: Coordinator: José L. F. Barbón

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

32559 - *Advanced Mathematics (MAV)*: Coordinators: José del Peso and Fernando Marchesano

**Obligatory courses for the speciality “Astrophysics and Physics of the Cosmos”:**

32553 - *Interstellar medium (MEIN)*: Coordinator: Eva Villaver

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

32565 - *Observational techniques in Astrophysics (TOA)*: Coordinator: Yago Ascasibar

Lectures in the Department of Theoretical Physics (Aula 01.08.SS.300)	M-8-300
Lectures in the Institute of Theoretical Physics (IFT)	Room “GRIS 2”

WEEK FROM SEPTEMBER 11<sup>th</sup> TO 15<sup>th</sup>

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

WEEK FROM SEPTEMBER 18<sup>th</sup> TO 22<sup>nd</sup>

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	QFT	QFT	GRA		
11:00-12:00	QFT	QFT	MAV	TOA <sup>1</sup>	TOA
12:00-13:00	GRA	GRA	MAV	TOA	TOA
13:00-14:00	GRA	MAV			
15:00-16:00			MEIN	MEIN	
16:00-17:00			MEIN	MEIN	

<sup>1</sup>In addition to the classes listed for TOA, observations at the UAM Observatory and the Centro Astronómico Hispano-Alemán in Calar Alto, Almería are also part of the course. The precise dates depend on several factors, including meteorology, but will be carried out in October-November (one/two evenings) and February-March (one weekend), respectively. The exam will take place at the end of the observations.

WEEK FROM SEPTEMBER 25<sup>th</sup> TO 29<sup>th</sup>

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

WEEK FROM OCTOBER 2<sup>nd</sup> TO 6<sup>th</sup>

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	QFT	QFT	GRA		
11:00-12:00	QFT	QFT	MAV	TOA	TOA
12:00-13:00	Inauguration of Masters in Sciences	GRA	MAV	TOA	TOA
13:00-14:00		MAV			
15:00-16:00	GRA		MEIN	MEIN	
16:00-17:00	GRA		MEIN	MEIN	

WEEK FROM OCTOBER 9<sup>th</sup> TO 13<sup>th</sup>

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	QFT	QFT	GRA	HOLIDAY	
11:00-12:00	QFT	QFT	MAV		
12:00-13:00	GRA	GRA	MAV		
13:00-14:00	GRA	MAV			
15:00-16:00			MEIN		
16:00-17:00			MEIN		

WEEK FROM OCTOBER 16<sup>th</sup> TO 20<sup>th</sup>

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

WEEK FROM OCTOBER 23<sup>th</sup> TO 27<sup>th</sup>

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

WEEK FROM OCTOBER 30<sup>th</sup> TO 3<sup>rd</sup> OF NOVEMBER

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	QFT	QFT	HOLIDAY		
11:00-12:00	QFT	QFT		TOA	TOA
12:00-13:00	GRA	GRA		TOA	TOA
13:00-14:00	GRA	MAV			
15:00-16:00				MEIN	
16:00-17:00				MEIN	

WEEK FROM NOVEMBER 6<sup>th</sup> TO 10<sup>th</sup>

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	QFT	QFT	GRA	HOLIDAY	HOLIDAY
11:00-12:00	QFT	QFT	MAV		
12:00-13:00	GRA	GRA	MAV		
13:00-14:00	GRA	MAV			
15:00-16:00			MEIN		
16:00-17:00			MEIN		

WEEK FROM NOVEMBER 13<sup>th</sup> TO 17<sup>th</sup>

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

WEEK FROM NOVEMBER 20<sup>th</sup> TO 24<sup>th</sup>

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

WEEK FROM NOVEMBER 27<sup>th</sup> TO DECEMBER 1<sup>st</sup>

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	GRA		MAV	MEIN	

WEEK FROM DECEMBER 4<sup>th</sup> TO 8<sup>th</sup>

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	QFT		HOLIDAY		HOLIDAY

**Deadline for submission of final marks is FEBRUARY 5<sup>th</sup>, 2017**

**SECOND TRIMESTER (DECEMBER 11 TO MARCH 23)**

**Common obligatory courses:**

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

**Obligatory courses for the specialty “Elementary Physics and Cosmology”**

32879 - *Standard Model of Particle Physics (SM)*: Coordinators: María José Herrero and Carlos Pena Ruano

SM- Block I: 11 Dec 2017 to 16 Jan 2018 (Maria J. Herrero)

SM-Block II: 17 Jan 2018 to 06 Feb 2018 (Carlos Pena)

SM-Block III: 07 Feb 2018 to 27 Feb 2018 (Maria J. Herrero)

SM-Block IV: 28 Feb 2018 to 07 Mar 2018 (Carlos Pena)

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

32558 - *Advanced Quantum Field Theory (AQFT)*: Coordinator: Margarita García Pérez

**Obligatory courses for the specialty “Astrophysics and Physics of the Cosmos”**

32554 - *Radiative processes in astrophysics (PRA)*: Coordinator: Carlos Eiroa

32552 - *Stellar Structure and Evolution (EEE)*: Coordinator: Patricia Sánchez-Blázquez

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

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

Lectures (Aula 01.08.SS.300)	M-8-300
Lectures in the Institute of Theoretical Physics (IFT)	Room “GRIS 2”

WEEK FROM DECEMBER 11<sup>th</sup> TO 15<sup>th</sup>

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

WEEK FROM DECEMBER 18<sup>th</sup> TO 22<sup>nd</sup>

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

WEEK FROM JANUARY 8<sup>th</sup> TO 12<sup>th</sup>

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

WEEK FROM JANUARY 15<sup>th</sup> TO 19<sup>th</sup>

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

WEEK FROM JANUARY 22<sup>nd</sup> TO 26<sup>th</sup>

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

WEEK FROM JANUARY 29<sup>th</sup> TO FEBRUARY 2<sup>nd</sup>

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

WEEK FROM FEBRUARY 5<sup>th</sup> TO 9<sup>th</sup>

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

WEEK FROM FEBRUARY 12<sup>th</sup> TO 16<sup>th</sup>

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

WEEK FROM FEBRUARY 19<sup>th</sup> TO 23<sup>rd</sup>

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

WEEK FROM FEBRUARY 26<sup>th</sup> TO MARCH 2<sup>nd</sup>

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



WEEK FROM MARCH 5<sup>th</sup> TO 9<sup>th</sup>

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-10:00	COSMO	AQFT	AQFT		
10:00-11:00	COSMO	AQFT	AQFT	FEP	FEP
11:00-12:00			SM	FEP	FEP
12:00-13:00		COSMO	SM	PRA	EEE
13:00-14:00		COSMO		PRA	EEE
15:00-16.00		SM			
16.00-17.00		SM		EEE	PRA
17.00-18.00				EEE	PRA

WEEK FROM MARCH 12<sup>th</sup> TO 16<sup>th</sup>

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	SM		AQFT	PRA	FEP

WEEK FROM MARCH 19<sup>th</sup> TO 23<sup>rd</sup>

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning		COSMO		EEE	

SEMANA DEL 26 AL 30 DE MARZO

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	HOLIDAY	HOLIDAY	HOLIDAY	HOLIDAY	HOLIDAY

**THIRD TRIMESTER (APRIL 3 TO JUNE 2)**

**Optional courses for both specialties:**

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

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

**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

32562 - *Quantum Entanglement and Information (QEI)*: Coordinator: German Sierra

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

32566 - *Computational Astrophysics (ACO)*: Coordinator: Alexander Knebe

32563 - *Galaxy Formation and Evolution (FEG)*: Coordinator: Rosa Domínguez

Lectures Faculty of Science (Aula 01.08.SS.300) ("FISExp": Aula 01.15.SS.300)	M-8-300 (M-15-300)
Lectures in the Institute of Theoretical Physics (IFT)	Room "GRIS 2"

WEEK FROM APRIL 2<sup>nd</sup> TO 6<sup>th</sup>

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

\*If there will be students enrolled in both courses, one of those courses will take place in the afternoon

WEEK FROM APRIL 9<sup>TH</sup> TO 13<sup>th</sup>

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

\*If there will be students enrolled in both courses, one of those courses will take place in the afternoon

WEEK FROM APRIL 16<sup>th</sup> TO 20<sup>th</sup>

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

\*If there will be students enrolled in both courses, one of those courses will take place in the afternoon

WEEK FROM APRIL 23<sup>rd</sup> TO 27<sup>th</sup>

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

\*If there will be students enrolled in both courses, one of those courses will take place in the afternoon

WEEK FROM APRIL 30<sup>th</sup> TO MAY 4<sup>th</sup>

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	ASP	HOLIDAY	HOLIDAY	CoAV	FEG
11:00-12:00	ASP			CoAV	FEG
12:00-13:00	OPSM			ACO	ACO
13:00-14:00				ACO	ACO
15:00-16:00	QEI				

FISExp: personal work

WEEK FROM MAY 7<sup>th</sup> TO 11<sup>th</sup>

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

\*If there will be students enrolled in both courses, one of those courses will take place in the afternoon  
FISExp: personal work

WEEK FROM MAY 14<sup>th</sup> TO 18<sup>th</sup>

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

\*If there will be students enrolled in both courses, one of those courses will take place in the afternoon  
FISExp: personal work

WEEK FROM MAY 21<sup>ST</sup> TO 25<sup>th</sup>

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

\*If there will be students enrolled in both courses, one of those courses will take place in the afternoon  
FISExp: personal work

WEEK FROM MAY 28<sup>th</sup> TO JUNE 1<sup>st</sup>

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

**Deadline for second semester and final marks submission: June 6, 2018**

### MASTER PROJECT

**Ordinary call: (before JULY 13<sup>th</sup>, 2017)**

**Deadline for final marks submission: JULY 15<sup>th</sup>, 2018**

### FINAL EVALUATION (SECOND CALL)

JUNE 11<sup>st</sup> TO 15<sup>th</sup>

EVALUATION	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	GRA	PRA	MAV	EEE	QFT

JUNE 18<sup>th</sup> TO 22<sup>nd</sup>

EVALUATION	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	TOA	QEI	COSMO	SM	FEP

JUNE 25<sup>th</sup> TO 29<sup>th</sup>

EVALUATION	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	AQFT	ACO	OPSM	MEIN	FEG

JULY 2<sup>nd</sup> TO JULY 6<sup>th</sup>

EVALUATION	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
morning	COAv	ASP	FISExp		

**Deadline for final marks submission JULY 6<sup>th</sup> 2018**

**MASTER PROJECT**

**Second call: (before SEPTEMBER 26<sup>th</sup>, 2018)**

**Deadline for final marks submission: SEPTEMBER 30<sup>th</sup>, 2018**