FIRST TRIMESTER (SEPTEMBER 9th TO NOVEMBER 29th)

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

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| 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 9 TO 13

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### WEEK 2, SEPTEMBER 16 TO 20

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WEEK 3, SEPTEMBER 23 TO 27

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* Practical TOA sessions will take place at the UAM Observatory (Modulo 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.

** Practical Session (Prácticas en el Aula)

WEEK 4, SEPTEMBER 30 TO OCTOBER 4

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WEEK 5, OCTOBER 7 TO 11

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** Practical Session (Prácticas en el Aula)
# ACADEMIC YEAR 2024-2025

## MASTER IN THEORETICAL PHYSICS

### GROUP 280

### WEEK 6, OCTOBER 14 TO 18

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** Practical Session (Prácticas en el Aula)

### WEEK 7, OCTOBER 21 TO 25

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### WEEK 8, OCTOBER 28 TO NOVEMBER 1

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ACADEMIC YEAR 2024-2025

MASTER IN THEORETICAL PHYSICS  GROUP 280

WEEK 9, NOVEMBER 4 TO 8

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** Practical Session (Prácticas en el Aula)

WEEK 10, NOVEMBER 11 TO 15

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HOLIDAYS ("FESTIVO FACULTAD")

WEEK 11, NOVEMBER 18 TO 22 - EVALUATION

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WEEK 12, NOVEMBER 25 TO 29 - EVALUATION

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Deadline for first semester and final marks submission: February 5th, 2025
SECOND TRIMESTER (DECEMBER 2 TO MARCH 7)

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: 2/12 – 18/12 (María J. Herrero)
SM-Block II: 8/01 – 24/01 (José Miguel No)
SM-Block III: 28/01 – 12/02 (María J. Herrero)
SM-Block IV: 17/02 – 19/02 (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): Coordinators: Nataly Ospina and Yago Ascasibar

Optional courses orientated to the specialty of “Astrophysics and Physics of the Cosmos”:
32564 - Stars and Planets Formation (FEP): Coordinator: Gwendolyn Meeus

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WEEK 1, DECEMBER 2 TO 6

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WEEK 2, DECEMBER 9 TO 13

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WEEK 3, DECEMBER 16 TO 20

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WEEK 5, JANUARY 13 TO 17

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WEEK 7, JANUARY 27 TO 31

Página 6
# Master in Theoretical Physics

**Academic Year 2024-2025**

## Group 280

### Week 8, February 3 to 7

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## ACADEMIC YEAR 2024-2025

### MASTER IN THEORETICAL PHYSICS  GROUP 280

**WEEK 11, FEBRUARY 24 TO 28**

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**WEEK 12, MARCH 3 TO 7**

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**Deadline for second trimester and final marks submission: June 5\(^{th}\), 2025**
THIRD TRIMESTER (MARCH 10 TO MAY 30)

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

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Lectures Faculty of Science (Aula 01.08.SS.300)
("FISExp": Aula 01.15.SS.300)
Lectures in the Institute of Theoretical Physics (IFT)

WEEK 2, MARCH 17 TO 21

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# ACADEMIC YEAR 2024-2025

## MASTER IN THEORETICAL PHYSICS

### GROUP 280

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* Group Tutorials (Tutorías en Grupo)

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* Group Tutorials (Tutorías en Grupo)

### WEEK 7, APRIL 28 TO MAY 2

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* Group Tutorials (Tutorías en Grupo)

### WEEK 8, MAY 5 TO 9

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* Group Tutorials (Tutorías en Grupo)
### WEEK 9, MAY 12 TO 16

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* Group Tutorials (Tutorías en Grupo)

### WEEK 10, MAY 19 TO 23

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* Group Tutorials (Tutorías en Grupo)

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Deadline for third trimester and final marks submission: June 5th, 2025

**MASTER THESIS**

Ordinary call: JULY 2nd TO 7th, 2025 – PRESENTATION TFM

Deadline for MSc thesis marks submission: July 10th, 2025
ACADEMIC YEAR 2024-2025

MASTER IN THEORETICAL PHYSICS  GROUP 280

FINAL EVALUATION (SECOND CALL)

JUNE 2 TO 6

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Deadline for final marks submission: July 2\textsuperscript{nd}, 2025

MASTER THESIS

Second call: WEEK SEPTEMBER 8\textsuperscript{th} TO 12\textsuperscript{th} - PRESENTATIONS TFM

Deadline for final marks submission (Master Thesis), until September 19\textsuperscript{th}, 2025