

TIMETABLE for the Master ERASMUS MUNDUS in NUCLEAR PHYSICS in Spain

Academic year 2018-2019

The students have to follow the topics in the first semester, all of them in Seville:

Quantum Mechanics (60 hours) 12 weeks x 5 h/week

Atomic and Molecular Physics (60 hours) 12 weeks x 5 h/week

Basic Experimental Nuclear Physics (30 hours = 20 h theory + 10 h lab (4 experiments x 2,5 h/exp)) 7 weeks theory x 3 h/week + 4 weeks lab 2.5 h/exp

Advanced Techniques in Experimental Nuclear Physics (30 hours = 15 h theory + 15 h lab (6 experiments x 2,5 h/exp)) 5 weeks theory x 3 h/week + 6 weeks lab 2.5 h/exp

Applied Nuclear Physics I (30 h intensive during the week January 21-25, 2019)

Second semester

Nuclear Structure: properties and models (30 h intensive during the week February 4-8, 2019) in Salamanca

Applied Nuclear Physics II (30 h intensive during the week February 18-22, 2019) in Madrid

Many-Body Theories in Nuclear Physics (30 h intensive during the week February 25-March 1, 2019) in Madrid

Nuclear Astrophysics (30 h intensive during the week March 25-29, 2019) in Barcelona

Introduction to Nuclear Reactions (30 h intensive during two weeks April 22-May 3, 2019) in Sevilla

In addition, the students without knowledge of Spanish will have Spanish language/culture classes during the morning (3 hours/day) of the first two weeks. The exact timetable will be communicated shortly.

Acronyms:

QM = Advanced Quantum Mechanics

A&M = Atomic and Molecular Physics

BENP = Basic Experimental Nuclear Physics

ATENP = Advanced Techniques in Experimental Nuclear Physics

API = Applied Nuclear Physics I

NS = Nuclear Structure: properties and models

APII = Applied Nuclear Physics II

MBT = Many-Body theories in Nuclear Physics

NA = Nuclear Astrophysics

NR = Nuclear Reactions

All lectures will be held at Facultad de Física in Avda. Reina Mercedes s/n, classroom 9. The lectures will start on October 8th, 2018

The subject BENP will be lectured during the first 7 weeks of the semester and then, with the same timetable will be lectured the subject ATENP during 5 weeks. The timetable for the first semester is the following (Wednesday is booked for laboratory classes of BENP and ATENP)

Lectures	Monday	Tuesday	Wednesday*	Thursday	Friday
16,00 – 17,00	A &M	A &M	BENP/ATENP	A &M	A &M
17,00 – 18,00	QM	A &M	BENP/ATENP Laboratory	QM	BENP/ATENP
18,00 – 18,30	break	break		break	break
18,30 – 19,30	QM	QM		QM	BENP/ATENP

* In October 24, 31 and November 7,14 the Wednesday sessions will be moved forward 1 hour. Lectures will be from 17 to 18 h and lab sessions will be from 18 to 20:30 h.

FIRST SEMESTER

QM and A&M

Starting date: October 8, 2018 (Week number 41) – Ending date: January 11, 2019 (week: 2)
Exams period: January 2019, 13-21

BENP

Starting date: October 8, 2018 (week number 41) – Ending date: November 23, 2018 (week: 47)

LAB: October 24 and 31, and November 7, 14

Exams period: January 2019, 13-21

ATENP

Starting date: November 26, 2018 (week number 48) – Ending date: January 11, 2019 (week: 2)

LAB: November 28, December 5, 12 and 19, January 9

Exams period: January 2019, 13-21

API

Teaching period: week January 21-25, 2019

Exams period: February 2019

SECOND SEMESTER

NS

Teaching period: week February 4-8, 2019 in SALAMANCA
Exams period: April-May 2019

APII

Teaching period: week February 18-22, 2019 in MADRID
Exams period: April-May 2019

MBT

Teaching period: week February 25-March 1, 2019 in MADRID
Exams period: April-May 2019

NA

Teaching period: week March 25-29, 2019 in BARCELONA
Exams period: June 2019

NR

Teaching period: two weeks April 22-May 3, 2019 in SEVILLA
Exams period: June 2019

Lecturers in the Erasmus Mundus Master Degree in Nuclear Physics (NucPhys)

ERASMUS MUNDUS Master Degree in Nuclear Physics (NucPhys)						
Subject	course	group	credits	Ann /cuat	Period	Lecturers
Introduction to Nuclear Reactions	1	1	3	1C	April 22-May 3, 2019	MV Andrés (1) A Moro (1) J. Gómez-Camacho (0,4) Marcos G. Álvarez (0,3) Juan P Fernández (0,3)
Applied Nuclear Physics I	1	1	3	1C	Jan 21-25, 2019	M.A. Respaldiza (0,8) F.J. García-López (0,8) M. García-León (0,8) A. Climent (0,6)
Quantum Mechanics	1	1	6	1C	Oct 8, 2018-Jan 11, 2019	J. Gómez-Camacho (4,0) JA Lay (2,0)
Basic Experimental Nuclear Physics	1	1	1,5	1C	Oct 8-Nov 23, 2018	Marcos G Álvarez (0,8) JP Fernández (0,7)
Basic Experimental Nuclear Physics	1	LAB	1,5	1C	Oct 8- Nov 23, 2018 October 24, 31 , and November 7 , 14	Marcos G Álvarez (0,5) JP Fernández (1)
Advanced Experimental Techniques in Nuclear Physics	1	1	1	1C	Nov 26, 2018-Jan 11, 2019	M García Muñoz (1)
Advanced Experimental Techniques in Nuclear Physics	1	LAB	2	1C	Nov 26, 2018-Jan 11, 2019 November 28, December 5, 12 and 19, January 9,	C Guerrero (1,5) E. Viezzer (0,5)
Atomic and Molecular Physics	1	1	6	1C	Oct 8, 2018-January 11, 2019	A. Moro (3) E. Viezzer (3)

The subjects: Nuclear Astrophysics (UB), Nuclear Structure: Properties and Models (USAL), Many-Body Theories in Nuclear Physics (UAM), and Applied Nuclear Physics II (UCM) are lectured at other Universities by lecturers of the corresponding University.