

MASTER IN PARTICLE PHYSICS AND COSMOS
2023-2024

OCTOBER						
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
	2	3	4	5	6	
08.30 - 09.30						
09.30 - 10.30	Welcome and Instructions	Physics of the Cosmos	Physics of the Cosmos	Programming		
10.30 - 11.30		Particle Physics	Particle Physics			
11.30 - 12.30	EA / DMPP	EA / DMPP	EA / DMPP	EA / DMPP		
12.30 - 13.30	Statistics	Statistics	Statistics	Statistics		
13.30 - 14.30						
16:00 -						
	9	10	11	12	13	
08.30 - 09.30						
09.30 - 10.30	Programming	Physics of the Cosmos	Physics of the Cosmos			
10.30 - 11.30		Particle Physics	Particle Physics			
11.30 - 12.30	EA / DMPP	EA / DMPP	EA / DMPP			
12.30 - 13.30	Statistics	Statistics	Statistics			
13.30 - 14.30						
16:00 -						
	16	17	18	19	20	
08.30 - 09.30						
09.30 - 10.30	Programming	Physics of the Cosmos	Physics of the Cosmos	Physics of the Cosmos		
10.30 - 11.30		Particle Physics	Particle Physics	Particle Physics		
11.30 - 12.30	EA / DMPP	EA / DMPP	EA / DMPP	EA / DMPP		
12.30 - 13.30	Statistics	Statistics	Statistics	Statistics		
13.30 - 14.30						
16:00 -						
	23	24	25	26	27	
08.30 - 09.30						
09.30 - 10.30	Programming	Physics of the Cosmos	Physics of the Cosmos	Physics of the Cosmos		
10.30 - 11.30		Particle Physics	Particle Physics	Particle Physics		
11.30 - 12.30	EA / DMPP	EA / DMPP	EA / DMPP	EA / DMPP		
12.30 - 13.30	Statistics	Statistics	Statistics	Statistics		
13.30 - 14.30						
16:00 -						
	30	31				
08.30 - 09.30						
09.30 - 10.30	Physics of the Cosmos	Physics of the Cosmos				
10.30 - 11.30	Particle Physics	Particle Physics				
11.30 - 12.30	EA / DMPP	EA / DMPP				
12.30 - 13.30	Statistics	Statistics				
13.30 - 14.30						
16:00 -						

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NOVEMBER						
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
			1	2	3	
08.30 - 09.30				Physics of the Cosmos		
09.30 - 10.30				Particle Physics		
10.30 - 11.30				EA / DMPP		
11.30 - 12.30				Statistics		
12.30 - 13.30						
13.30 - 14.30						
16:00 -						
	6	7	8	9	10	
08.30 - 09.30						
09.30 - 10.30	Physics of the Cosmos	Physics of the Cosmos	Physics of the Cosmos	Programming		
10.30 - 11.30	Particle Physics	Particle Physics	Particle Physics			
11.30 - 12.30	EA / DMPP	EA / DMPP	EA / DMPP	Extragalactic Astrophysics		
12.30 - 13.30	Statistics	Statistics	Statistics	Statistics		
13.30 - 14.30						
16:00 -						
	13	14	15	16	17	
08.30 - 09.30						
09.30 - 10.30	Physics of the Cosmos	Physics of the Cosmos	Physics of the Cosmos	Programming		
10.30 - 11.30	Particle Physics	Particle Physics	Particle Physics			
11.30 - 12.30	Extragalactic Astrophysics	Extragalactic Astrophysics	Extragalactic Astrophysics	Extragalactic Astrophysics		
12.30 - 13.30	Statistics	Statistics	Statistics	Statistics		
13.30 - 14.30						
16:00 -						
	20	21	22	23	24	
08.30 - 09.30						
09.30 - 10.30	Physics of the Cosmos	Physics of the Cosmos	Physics of the Cosmos	Programming		
10.30 - 11.30	Particle Physics	Particle Physics	Particle Physics			
11.30 - 12.30	Extragalactic Astrophysics	Extragalactic Astrophysics	Extragalactic Astrophysics	Extragalactic Astrophysics		
12.30 - 13.30	Statistics		Statistics			
13.30 - 14.30	Statistics		Statistics			
16:00 -						
	27	28	29	30		
08.30 - 09.30						
09.30 - 10.30	Physics of the Cosmos	Physics of the Cosmos	Physics of the Cosmos	Physics of the Cosmos		
10.30 - 11.30	Particle Physics	Particle Physics	Particle Physics	Particle Physics		
11.30 - 12.30	Extragalactic Astrophysics	Extragalactic Astrophysics	Extragalactic Astrophysics	Extragalactic Astrophysics		
12.30 - 13.30	Extragalactic Astrophysics	Statistics	Statistics			
13.30 - 14.30	Laboratory		Statistics			
16:00 - 17:00	Detection Methods in Particle Physics	Detection Methods in Particle Physics	Detection Methods in Particle Physics	Detection Methods in Particle Physics		
17:00 - 18:00						

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DECEMBER						
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
					1	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30						
11.30 - 12.30						
12.30 - 13.30						
13.30 - 14.30						
16.00 - 17.00					Detection Methods in Particle Physics	
17.00 - 18.00						
	4	5	6	7	8	
08.30 - 09.30						
09.30 - 10.30	Physics of the Cosmos	Physics of the Cosmos		Physics of the Cosmos		
10.30 - 11.30	Particle Physics	Particle Physics		Particle Physics		
11.30 - 12.30	Extragalactic Astrophysics	Extragalactic Astrophysics		Extragalactic Astrophysics		
12.30 - 13.30	Statistics					
13.30 - 14.30	Statistics					
16.00 -						
	11	12	13	14	15	
08.30 - 09.30						
09.30 - 10.30	Physics of the Cosmos	Programming	Physics of the Cosmos	Physics of the Cosmos		
10.30 - 11.30	Particle Physics		Particle Physics	Particle Physics		
11.30 - 12.30	Extragalactic Astrophysics	Extragalactic Astrophysics	Extragalactic Astrophysics	Extragalactic Astrophysics		
12.30 - 13.30	Statistics		Statistics	Extragalactic Astrophysics Laboratory		
13.30 - 14.30	Statistics		Statistics			
16.00 -						
	18	19	20	21	22	
08.30 - 09.30						
09.30 - 10.30	Physics of the Cosmos	Physics of the Cosmos		Physics of the Cosmos		
10.30 - 11.30	Particle Physics	Particle Physics	Programming	Physics of the Cosmos		
11.30 - 12.30	Programming	Programming		Particle Physics		
12.30 - 13.30						
13.30 - 14.30						
16.00 -						

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JANUARY						
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
	1	2	3	4	5	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30						
11.30 - 12.30						
12.30 - 13.30						
13.30 - 14.30						
16:00 -						
	8	9	10	11	12	
08.30 - 09.30						
09.30 - 10.30	Physics of the Cosmos	Physics of the Cosmos	Statistics	Physics of the Cosmos		
10.30 - 11.30						
11.30 - 12.30	Particle Physics	Statistics	Particle Physics	Particle Physics		
12.30 - 13.30		Statistics				
13.30 - 14.30						
16:00 -						
	15	16	17	18	19	
08.30 - 09.30						
09.30 - 10.30	Physics of the Cosmos	Physics of the Cosmos				
10.30 - 11.30		Particle Physics				
11.30 - 12.30	Particle Physics					
12.30 - 13.30						
13.30 - 14.30						
16:00 -						
	22	23	24	25	26	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30						
11.30 - 12.30						
12.30 - 13.30						
13.30 - 14.30						
16:00 -						
	29	30	31			
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30		Cosmology / HPC	Cosmology / HPC			
11.30 - 12.30						
12.30 - 13.30		Analysis Tools in Particle Physics	Analysis Tools in Particle Physics			
13.30 - 14.30						
15.30 - 16.30		MMEC / Dark Universe	MMEC / Dark Universe			
16.30 - 17.30						

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FEBRUARY						
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
				1	2	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30				Cosmology / HPC		
11.30 - 12.30				Analysis Tools in Particle Physics		
12.30 - 13.30				MMEC / Dark Universe		
13.30 - 14.30						
15.30 - 16.30						
16.30 - 17.30						
	5	6	7	8	9	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30		Cosmology / HPC	Cosmology / HPC	Cosmology / HPC		
11.30 - 12.30		Analysis Tools in Particle Physics	Analysis Tools in Particle Physics	Analysis Tools in Particle Physics		
12.30 - 13.30		MMEC / Dark Universe	MMEC / Dark Universe	MMEC / Dark Universe		
13.30 - 14.30						
15.30 - 16.30						
16.30 - 17.30						
	12	13	14	15	16	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30		Cosmology / HPC	Cosmology / HPC	Cosmology / HPC		
11.30 - 12.30		Analysis Tools in Particle Physics	Analysis Tools in Particle Physics	Analysis Tools in Particle Physics		
12.30 - 13.30		MMEC / Dark Universe	MMEC / Dark Universe	MMEC / Dark Universe		
13.30 - 14.30						
15.30 - 16.30						
16.30 - 17.30						
	19	20	21	22	23	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30		Cosmology / HPC	Cosmology / HPC	Cosmology / HPC		
11.30 - 12.30		Analysis Tools in Particle Physics	Analysis Tools in Particle Physics	Analysis Tools in Particle Physics		
12.30 - 13.30		MMEC / Dark Universe	MMEC / Dark Universe	MMEC / Dark Universe		
13.30 - 14.30						
15.30 - 16.30						
16.30 - 17.30						
	26	27	28	29		
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30		Cosmology / HPC	Cosmology / HPC	Cosmology / HPC		
11.30 - 12.30		Analysis Tools in Particle Physics	Analysis Tools in Particle Physics	Analysis Tools in Particle Physics		
12.30 - 13.30		MMEC / Dark Universe	MMEC / Dark Universe	MMEC / Dark Universe		
13.30 - 14.30						
15.30 - 16.30						
16.30 - 17.30						

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MARCH						
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
					1	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30						
11.30 - 12.30						
12.30 - 13.30						
13.30 - 14.30						
16.30 - 17.30						
17.30 - 18.30						
	4	5	6	7	8	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30		Cosmology / HPC	Cosmology / HPC	Cosmology / HPC		
11.30 - 12.30						
12.30 - 13.30		Analysis Tools in Particle Physics	Analysis Tools in Particle Physics	Analysis Tools in Particle Physics		
13.30 - 14.30						
15.30 - 16.30		MMEC / Dark Universe	MMEC / Dark Universe	MMEC / Dark Universe		
16.30 - 17.30						
	11	12	13	14	15	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30		Cosmology / HPC	Cosmology / HPC	Cosmology / HPC		
11.30 - 12.30						
12.30 - 13.30		Analysis Tools in Particle Physics	Analysis Tools in Particle Physics	Analysis Tools in Particle Physics		
13.30 - 14.30						
15.30 - 16.30		MMEC / Dark Universe	MMEC / Dark Universe	MMEC / Dark Universe		
16.30 - 17.30						
	18	19	20	21	22	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30		Cosmology / HPC	Cosmology / HPC			
11.30 - 12.30						
12.30 - 13.30		Analysis Tools in Particle Physics	Analysis Tools in Particle Physics			
13.30 - 14.30						
15.30 - 16.30		MMEC / Dark Universe	MMEC / Dark Universe			
16.30 - 17.30						
	25	26	27	28	29	
08.30 - 09.30						
09.30 - 10.30						
10.30 - 11.30						
11.30 - 12.30						
12.30 - 13.30						
13.30 - 14.30						
16.30 - 17.30						
17.30 - 18.30						

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	Notes							
	The lectures take place at the 'Aula 11' of the Science Faculty, except for the ones of 'Detections Methods and Techniques for Particle Physics', that take place at the 'Aula 10', and their laboratory, that take place at the "Laboratorio de Radiactividad", of the Science Faculty.							
	The Laboratory sessions of 'Detections Methods and Techniques for Particle Physics' will take place during December and/or January, on dates to be confirmed.							
	As much as possible, the course 'Frontier Research in Astrophysics and Particle Physics' will take place on FRIDAY morning. These lectures would take place on-line or at the classroom (either at the 'Aula 11' of the Science Faculty or at the "Sala Marie Curie", IFCA), depending on the needs of the speakers (take into account that many of them come from abroad).							
	"DMPP" = "Detections Methods and Techniques for Particle Physics"							
	"HPC" = "High Performance Computing"							
	"MMEC" = "Multi-messenger Exploration of the Cosmos"							
	Final grades for the first semester:							
		ordinary evaluation 23 January						
		extraordinary evaluation 12 February						
	Final grades for the second semester:							
		ordinary evaluation 28 June						
		extraordinary evaluation 19 July						