

SUBJECTS: ( abstracts can be found in: <https://javierprieto2.wixsite.com/doctorado>)

- CORE:

- 1) Introduction to string theory (IST): Prof. Ángel Uranga
- 2) Introduction to indirect detection of dark matter (DM): Prof. Viviana Gammaldi
- 3) Consistent EFTs (CEFTs): Prof. Feruglio Ferruccio (University of Padova and INFN)
- 4) SUSY and Higgs phenomenology (SHP): Prof. Sven Heinemeyer
- 5) Introduction to collider phenomenology (ICP): Prof. José Miguel No
- 6) Flavour Physics (FP): Prof. Yossi Nir (Weizmann Institute of Science, Israel)

- ADVANCED:

- 1) The holographic principle and black hole physics (HPBHP): Prof. Mario Flory
- 2) Practical introduction to statistics (ST): Prof. Bryan Zaldivar
- 3) Introduction to machine learning (ML): Prof. Bryan Zaldivar
- 4) Black holes and quantum information (BHQI): Prof. Javier Martín
- 5) Introduction to Conformal Field Theory (ICFT): Prof. Germán Sierra
- 6) Windows on quantum gravity. Covariant techniques (WQG): Prof. Enrique Álvarez
- 7) Quantum Fields for Quantum Matter (QFQM): Prof. Karl Landsteiner
- 8) The geometry of string effective actions (GS): Prof. C. S. Shahbazi (U. Hamburg)

WEEK FROM SEPTEMBER 6<sup>th</sup> TO 10<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM SEPTEMBER 13<sup>th</sup> TO 17<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM SEPTEMBER 20<sup>th</sup> TO 24<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM SEPTEMBER 27<sup>th</sup> TO OCTOBER 1<sup>st</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM OCTOBER 4<sup>th</sup> TO 8<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM OCTOBER 11<sup>th</sup> TO 15<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
		HOLIDAY			

WEEK FROM OCTOBER 18<sup>th</sup> TO 22<sup>nd</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 – 11:30 (Sala Gris 1)	BHQI	BHQI	BHQI	BHQI	BHQI

WEEK FROM OCTOBER 25<sup>h</sup> TO 29<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM NOVEMBER 1<sup>st</sup> TO 5<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
16:00 - 18:00 (Sala Roja)	HOLIDAY				HPBHP

WEEK FROM NOVEMBER 8<sup>th</sup> TO 12<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
16:00 - 18:00 (Sala Roja)	HPBHP	HOLIDAY			HPBHP

WEEK FROM NOVEMBER 15<sup>th</sup> TO 19<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
16:00 - 18:00 (Sala Roja)	HPBHP				HPBHP

WEEK FROM NOVEMBER 22<sup>nd</sup> TO 26<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
16:00 - 18:00 (Sala Roja)	HPBHP				HPBHP

WEEK FROM NOVEMBER 29<sup>th</sup> TO DECEMBER 3<sup>rd</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
16:00 - 18:00 (Sala Roja)	HPBHP				

WEEK FROM DECEMBER 6<sup>th</sup> TO 10<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	HOLIDAY		HOLIDAY		

WEEK FROM DECEMBER 13<sup>th</sup> TO 17<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM DECEMBER 20<sup>th</sup> TO 24<sup>th</sup>, 2021

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
			HOLIDAY		

WEEK FROM JANUARY 10<sup>th</sup> TO 14<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 - 13:30 (Sala Gris 1)				QFQM	QFQM

WEEK FROM JANUARY 17<sup>th</sup> TO 21<sup>st</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 - 13:30 (Sala Gris 1)	QFQM	ICFT		QFQM	QFQM

WEEK FROM JANUARY 24<sup>th</sup> TO 28<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 - 13:30 (Sala Gris 1)	QFQM	ICFT	QFQM	QFQM	

WEEK FROM JANUARY 31<sup>st</sup> TO FEBRUARY 4<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 - 13:30 (Sala Gris 1)		ICFT	QFQM	QFQM	

WEEK FROM FEBRUARY 7<sup>th</sup> TO 11<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00 - 13:00 (Sala ZOOM)	ST	ST	ST	ST	ST
15:00 - 17:00 (Sala Gris 1)		ICFT			

WEEK FROM FEBRUARY 14<sup>th</sup> TO 18<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00 - 13:00 (Sala ZOOM)	ML	ML	ML	ML	ML
15:00 - 17:00 (Sala Gris 1)		ICFT			

WEEK FROM FEBRUARY 21<sup>st</sup> TO 25<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00 - 13:00 (Sala ZOOM)	ML	ML	ML	ML	ML
15:00 - 17:00 (Sala Gris 1)		ICFT			

WEEK FROM FEBRUARY 28<sup>th</sup> TO MARCH 4<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 - 13:30 (Sala Gris 1)			IST		IST
11:30 - 13:30 (Sala Gris 1)		ICFT		SHP	
15:00 - 17:00 (Sala Roja)		DM		DM	

WEEK FROM MARCH 7<sup>th</sup> TO 11<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 - 13:30 (Sala Gris 1)	IST		IST		IST
11:30 - 13:30 (Sala Gris 1)		ICFT		SHP	
15:00 - 17:00 (Sala Gris 1)	FP		FP		
15:00 - 18:00 (Sala Gris 1)		FP		FP	

WEEK FROM MARCH 14<sup>th</sup> TO 18<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 – 13:30 (Sala Gris 1)	IST		IST	SHP	IST
15:30 – 17:30 (Sala Gris 1)	GS	GS	GS		

WEEK FROM MARCH 21<sup>st</sup> TO 25<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 – 13:30 (Sala Gris 1)	IST		IST	SHP	IST
15:30 – 17:30 (Sala Gris 1)	GS	GS	GS		

WEEK FROM MARCH 28<sup>th</sup> TO APRIL 1<sup>st</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 – 13:30 (Sala Gris 1)	IST			SHP	
11:00 – 13:00 (Sala Gris 1)		CEFTs	CEFTs		CEFTs
15:30 – 17:30 (Sala Gris 1)	GS	GS	GS		

WEEK FROM APRIL 4<sup>th</sup> TO 8<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00 – 13:00 (Sala Gris 1)		CEFTs	CEFTs		
11:30 – 13:00 (Sala Gris 1)	ICP			ICP	
15:30 – 17:30 (Sala Gris 1)	GS	GS	GS		

WEEK FROM APRIL 11<sup>th</sup> TO 15<sup>th</sup>, 2022

EASTER HOLIDAY					
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WEEK FROM APRIL 18<sup>th</sup> TO 22<sup>nd</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 - 13:00 (Sala Gris 1)	HOLIDAY	ICP		ICP	

WEEK FROM APRIL 25<sup>th</sup> TO 29<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 - 13:00 (Sala Gris 1)				ICP	
10:00 - 11:30 (Sala Gris 1)					ICP
11:00 - 13:00 (Sala Gris 1)	WQG	WQG	WQG		

WEEK FROM MAY 2<sup>nd</sup> TO 6<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:30 - 13:00 (Sala Gris 1)	HOLIDAY	ICP		ICP	

WEEK FROM MAY 9<sup>th</sup> TO 13<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM MAY 16<sup>th</sup> TO 20<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM MAY 23<sup>rd</sup> TO 27<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM MAY 30<sup>th</sup> TO JUNE 3<sup>rd</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM JUNE 6<sup>th</sup> TO 10<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM JUNE 13<sup>th</sup> TO 17<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM JUNE 20<sup>th</sup> TO 24<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

WEEK FROM JUNE 27<sup>th</sup> TO 30<sup>th</sup>, 2022

TIME TABLE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY