

Les Houches summer school 2021: Dark Matter

Week 1	9h00-10h30	11h00-12h30	<i>Lunch break</i>	15h30-17h00	17h30-19h00
Monday 26 July 2021	<i>Arrival and settling</i>		<i>Lunch</i>	<i>Arrival and settling</i>	
Tuesday 27 July	Green 1	Ruderman 1	<i>Lunch</i>	Green 2	Feng 1
Wednesday 28 July	Ruderman 2	Green 3	<i>Lunch</i>	Ruderman 3	Feng 2
Thursday 29 July	Green 4	Ruderman 4	<i>Lunch</i>	<i>Individual study</i>	Discussion on Feng
Friday 30 July	Green 5	Ruderman 5	<i>Lunch</i>	<i>Individual study</i>	Tutorial or further discussions
Weekend	<i>Excursion</i>		<i>Lunch</i>	<i>Free time - individual study</i>	

Speakers: [Anne Green](#) - Dark Matter in Cosmology [long course]
[Josh Ruderman](#) - Dark Matter production [long course]
[Jonathan Feng](#) - Standard WIMPs [short course]

remote (UK, -1h)
in person
remote (US PDT, -9h)

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Week 2	9h00-10h30	11h00-12h30	<i>Lunch break</i>	15h30-17h00	17h30-19h00
Monday 2 August 2021	Cooley 1	Slatyer 1	<i>Lunch</i>	<i>Individual study</i>	participants' presentations ('gong-show')
Tuesday 3 August	Slatyer 2	Cooley 2	<i>Lunch</i>	Peter 1	Discussion on Cooley
Wednesday 4 August	Lin 1	Slatyer 3	<i>Lunch</i>	<i>Individual study</i>	Peter 2
Thursday 5 August	Slatyer 4	Lin 2	<i>Lunch</i>	Discussion on Peter	Slatyer 5
Friday 6 August	Discussion on Slatyer	Discussion on Lin	<i>Lunch</i>	<i>Individual study</i>	Tutorial or further discussions
Weekend	<i>Excursion</i>		<i>Lunch</i>	<i>Free time - individual study</i>	

Speakers: **Tracy Slatyer** - Dark Matter Indirect Detection [long course]
Jodi Cooley - DM Direct Detection of classical WIMPs [short course]
Tongyan Lin - Sub-GeV Dark Matter [short course]
Annika Peter - Numerical simulations [short course]

in person
in person
in person
remote (US EDT, -6h)

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Week 3	9h00-10h30	11h00-12h30	<i>Lunch break</i>	15h30-17h00	17h30-19h00
Monday 9 August 2021	Burrage 1	Harris 1	<i>Lunch</i>	<i>Individual study</i>	participants' presentations ('gong-show')
Tuesday 10 August	Harris 2	Burrage 2	<i>Lunch</i>	<i>Individual study</i>	Khoury 1
Wednesday 11 August	Harris 3	Carr & Kühnel 1	<i>Lunch</i>	<i>Individual study</i>	18h00-19h30 Khoury 2
Thursday 12 August	Harris 4	Tutorial or further discussions	<i>Lunch</i>	Hui 1	Discussion on Khoury Kühnel 1b
Friday 13 August	Discussion on Harris	Carr & Kühnel 2	<i>Lunch</i>	Hui 2	Rajendran 1
Weekend	<i>Excursion</i>		<i>Lunch</i>	<i>Free time - individual study</i>	

Speakers: **Phil Harris** - Dark Matter at accelerators [long course]

Justin Khoury - Modified gravity [short course]

Clare Burrage - Extended gravity and connection to Dark Energy [short course]

Bernard Carr & Florian Kühnel - Primordial Black Holes [short course]

Lam Hui - Ultralight Dark Matter [short course]

Surjeet Rajendran - New avenues in experimental searches [short course]

in person

remote (US PDT, -9h)

remote (UK, -1h)

remote (UK, -1h) & in person

remote (US EDT, -6h)

in person

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Week 4	9h00-10h30	11h00-12h30	<i>Lunch break</i>	15h30-17h00	17h30-19h00
Monday 16 August 2021	Hochberg 1	Irastorza 1	<i>Lunch</i>	Brod 1	Rajendran 2
Tuesday 17 August	Irastorza 2	Hochberg 2	<i>Lunch</i>	Tutorial or further discussions	Brod 2
Wednesday 18 August	Cline 1	Irastorza 3	<i>Lunch</i>	<i>Individual study</i>	Discussion on Brod
Thursday 19 August	Irastorza 4	Kopp 1	<i>Lunch</i>	15h30-16h15 Discussion Irastorza 16h15-17h00 Guest talk: T.Kontos	Cline 2
Friday 20 August		9h30-11h00 Kopp 2		<i>Lunch</i>	<i>Departure - leave by 3pm</i>
Weekend	—		—	—	

Speakers: **Igor Irastorza** - Axions [long course]
Yonit Hochberg - Strongly Interacting Massive Particles [short course]
Joachim Brod - DM effective field theories [short course]
Joachim Kopp - Sterile Neutrinos [short course]
Jim Cline - Dark atoms and composite Dark Matter [short course]

in person
remote
remote
in person
in person