

## School on Low Dimensional Systems



2<sup>nd</sup> edition, July, 4-8, 2022, Montpellier



















- Fundamental lectures on the physical processes, more applied lessons displaying examples illustrated by practicals.
- The specificity of this training is to combine theoretical courses and practicals
- This session will be able to welcome a maximum of 25 people (researchers, engineers and doctoral students...).
- > This school is for beginners in this field or those who want to expand their knowledge in other disciplines

## Fees for 1 week:

- Student (M2, PhD), post-doctorate : 290€ HT Other : 390€ HT
- Student rooms available at 150 € TTC for the whole week

SCHEDULE	Monday, July 4	Tuesday, July 5	Wenesday, July 6	Thursday, July 7	Friday, July 8
8H30-10H		Raman spectra of graphène E. Anglaret (Montpellier)	Experimental parameters P. Puech (Toulouse)	Raman spectra of TMD S. Berciaud (Strasbourg)	Introduction to excitor physics X. Marie (Toulouse)
10Н00-10Н30		Coffee break	Coffee break	Coffee break	Coffee break
10H30-12H00	Electronic band structure	Raman spectra of SWNT	PL of SWNTs	Raman modes activity	PL of TMDs
	and resonance G.Cassabois (Montpellier)	T. Michel (Montpellier)	N. Izard (Montpellier)	B. Hehlen (Montpellier)	C. Robert (Toulouse)
12H00-14H00		Lunch	Lunch	Lunch	Lunch
			Matching substrate / λ		
14H00-15H30	Electronic band structure and resonance G.Cassabois (Montpellier)	Practicals	J.R. Huntzinger (Montpellier)	Practicals	
15H30-16H00			Practicals		
16H00-17H00	Light-Matter interaction JL.Bantignies (Montpellier)				
17H15-18H45	Phonons  T. Sohier (Lausanne)				ı
19H00	Posters-Welcome Buffet				

- [\*] Practicals (3 Practicals to choose):
- 1) Raman of TMDs
- 2) Graphène
- 3) Photoluminescence (SWNT & TMDs)
- 4) In situ synthesis of SWNT
- 5) Resonance effects on SWNT
- 6) Dispersion and orientation of SWNT in composites
- 7) Identification & caractérisation of low dimensional compounds,
- 8) Substrate/ excitation wavelength matching

## **Information:**

https://coulomb.umontpellier.fr/Summer-School-on-Low-Dimensional-Systems-du-4-au-8-juillet-2022

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