

Program



Program of the 7th International Conference Flatlands beyond Graphene

2 – 6 September 2019, Toulouse, France

Hotel Mercure Atria, Compans Cafferelli, 31000 Toulouse

	Monday	Tuesday	Wednesday	Thursday	Friday
9h00		Damien Voiry	Andras Kis	J. Maultzsch	Ning Wang
9h30		Alla Zak	Jun Lou	Thomas Heine	C. Gadermaier
10h00		Doron Naveh	K.S. Thygesen	M. Baranowski	Goki Eda
10h30		Coffee	Coffee	Coffee	Coffee
11h00		U. Wurstbauer	Efrat Liftshitz	M. Kepenekian	S. Ithurria
11h30		S. Magorrian	Claudia Backes	A. Urban	Brian Kiraly
12h00		Tobias Korn	Liyang Jiao	Lin Leppert	V. Nicolosi
12h30		Buffet Lunch	Buffet Lunch	Buffet Lunch	Closing
14h00		A. Chernikov	Excursion to Albi	A.C. Gomez	
14h30		Misha Glazov		Xiaoqin Li	
15h00	Registration	Mark Goerbig		E. Tutuc	
15h30	Coffee	Ermin Malic		Jianting Ye	
16h00	Opening	Coffee		Coffee	
16h30	T. Mueller	Shotgun 1		Shotgun 2	
17h00	Zdenek Sofer	+			
17h30	Omer Yaffe	Poster Session			
18h00	J. Robinson	+			
18h30	Sami Mitra	Cocktail dinaire			
19h00	Welcome reception NOVOTEL		Aperitif + Banquet in Albi	Cocktail dinaire	
21h00			Bus to		
22h30			Hotel Mercure		

Invited talks - 25 minutes + 5 minutes for questions/discussion

Shotgun – strictly 3 minutes/ 3 slides to advertise poster

Monday afternoon

16h00: Opening with **Paulina Plochocka** and **Reshef Tenne**

Session chair - Reshef Tenne

16h30: **Thomas Mueller**

Two-dimensional materials: from individual devices to complex systems

17h00: **Zdeněk Sofer**

Two-dimensional monoelemental materials beyond graphene

17h30: **Omer Yaffe**

Anharmonic semiconductors - Lessons Learned from Halide perovskites

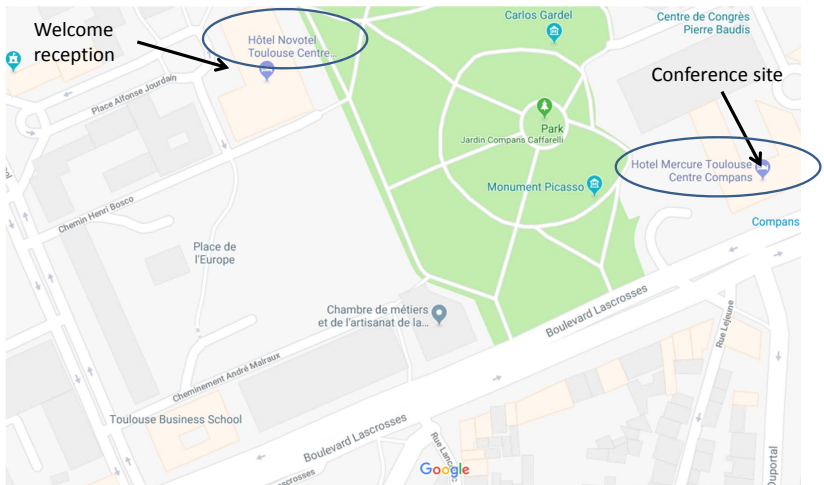
18h00: **Joshua A. Robinson**

Creating 2D Metals for Extreme non-Linear Optics and Quantum Applications

18h30: **Sami Mitra**

Your paper in Physical Review Letters

19h00: Welcome reception NOVOTEL



Tuesday morning

Session chair - Mark Goerbig

9h00: Damien Voiry

Exfoliated 2D Transition Metal Dichalcogenides: preparation, modification and use

9h30: Alla Zak

An update on properties and synthesis of MoS₂ and WS₂ nanotubes

10h00: Doron Naveh

Defects Activation by Metal Intercalation in MoS₂ Thin Films

10h30: Coffee break

Session chair - Ermin Malic

11h00: Ursula Wurstbauer

Hybridized indirect excitons in MoS₂/WS₂ heterobilayers

11h30: Samuel J. Magorrian

Ultra-thin van der Waals crystals as semiconductor quantum wells

12h00: Tobias Korn

Magneto-spectroscopy of interlayer excitons in hBN-encapsulated TMDC heterostructures

12h30: Buffet lunch

Tuesday afternoon

Session chair - Tobias Korn

14h00: Alexey Chernikov

Dielectric disorder and exciton transport in 2D semiconductors

14h30: Misha Glazov

Electron and exciton-phonon interaction in atom-thin multivalley semiconductors

15h00: Mark O. Goerbig

Excitons in Two-Dimensional Transition-Metal Dichalcogenides: Why does the Effective Hydrogen Model Fail?

15h30: Ermin Malic

Spatiotemporal exciton dynamics in atomically thin materials

16h00: Coffee break

16h30: Shotgun session (chair - Thomas Heine)

(3 minute/3 slide oral presentation to advertise your poster)

18h30: Posters + cocktail dinatoire

Wednesday

Session chair - Efrat Liftshitz

9h00: Andras Kis

Defect induced and layer-modulated magnetism in ultrathin metallic PtSe₂

9h30: Jun Lou

Flatlands beyond graphene: Magnetic Ordering in Ultrathin Crystals

10h00: Kristian Sommer Thygesen

Data-driven discovery of novel 2D materials and heterostructures

10h30: Coffee break

Session chair - Andras Kis

11h00: Efrat Liftshitz

Two dimensional compounds beyond graphene and beyond transition metal di-chalcogenides

11h30: Claudia Backes

Liquid phase exfoliation of organic sheet stacks- A case study

12h00: Liying Jiao

Phase selective synthesis of two-dimensional crystals

12h30: Buffet lunch

14h00: Excursion to Albi

19h00: Conference Banquet in Albi

Thursday morning

Session chair - Emanuel Tutuc

9h00: Janina Maultzsch

Optical properties of 2D materials

9h30: Thomas Heine

Two-dimensional Topological Polymers

10h00: Michal Baranowski

Optical spectroscopy of 2D perovskites in high magnetic fields

10h30: Coffee break

Session chair - Omer Yaffe

11h00: Mikaël Kepenekian

Critical role of interfaces in halide perovskite-based devices

11h30: Alexander S. Urban

Charge carrier dynamics in thickness-controlled halide perovskite nanoplatelets

12h00: Lin Leppert

Dimensional reduction of halide double perovskites: Insights from first principles calculations

12h30: Buffet lunch

Thursday afternoon

Session chair - Ning Wang

14h00: Andres Castellanos-Gomez

Strain engineering in 2D materials: towards strain tunable optoelectronic devices

14h30: Xiaoqin Li

Evidence for Moiré Excitons in Van der Waals Heterostructures

15h00: Emanuel Tutuc

Quantum Hall Effect and Tunneling in Transition Metal Dichalcogenide Heterostructures

15h30: Jianting Ye

Field-Induced Superconductivity in Transition Metal Dichalcogenides

16h00: Coffee break

16h30: Shotgun session (chair - Alexey Chernikov)

(3 minute/3 slide oral presentation to advertise your poster)

18h30: Posters + cocktail dinatoire

Friday morning

Session chair - Valeria Nicolosi

09h00: Ning Wang

Intrinsic valley Hall transport in atomically thin semiconducting transition-metal dichalcogenides

09h30: Christoph Gadermaier

Ultrafast Photophysics of Transition Metal Dichalcogenide Structures

10h00: Goki Eda

Hot carrier optoelectronic devices based on van der Waals heterostructures

10h30: Coffee break

Session chair - Goki Eda

11h00: Sandrine Ithurria

Control of the composition and the surface chemistry of II-VI semiconductor nanoplatelets

11h30: Brian Kiraly

Screening at the Surface of Black Phosphorus: Anisotropy, Doping, and Magnetism

12h00: Valeria Nicolosi

Additive-free MXene inks and direct printing of micro-supercapacitors

12h30: Closing with Uli Zeitler

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