


Title of the Event	Flatlands beyond Graphene		
Nature	Conférence Internationale		
Language	English	Nb of attendees	150
Location	Hotel Mercure, Compans Cafferelli, 31000 Toulouse		
Porteur(s) <i>avec courriel</i>	Paulina Plochocka Duncan Maude	paulina.plochocka@lncmi.cnrs.fr duncan.maude@lncmi.cnrs.fr	
NEXT Laboratory(ies) involved	- LNCMI-CNRS-INSA-UPS - LPCNO		
Dates	September 2-6, 2019		
URL link	http://www.hfml.science.ru.nl/flatlands2019/		

Event scope and topics

The international conference “Flatlands beyond Graphene” has successfully established a platform for scientists to engage into fruitful discussions and exchange the latest discoveries in two-dimensional materials beyond graphene. This includes advances in synthesis, characterization and theoretical modeling, and the applications in electronics, energy storage, catalysis and optoelectronics. It was first held in Bremen, Germany (2013) and then subsequently in Dublin, Ireland (2014), Ramat Gan, Israel (2015), Bled, Slovenia (2016), Lausanne, Switzerland (2017) and Leipzig, Germany (2018). We believe the attractiveness of Toulouse with an international airport which is only 20 minutes from the venue will ensure the success of the conference.

The program will consist of invited and contributed lectures and posters in single sessions with sufficient time allocated to stimulating discussions and interactions between the participants. Participation of students is explicitly encouraged.

The scope of this conference covers the physics of emerging layered semiconductor materials beyond graphene. The conference typically attracts 150 participants.

Topics

- Emerging layered semiconductors
- Transition metal dichalcogenides (TMD)
- TMD heterostructures
- Black phosphorus
- 2D perovskites
- Mechanical exfoliation, CVD growth
- Hexagonal Boron nitride encapsulation
- Devices