

# #1 D2D NANOMAT

International Summer School on  
low-dimensional semiconductor  
materials and devices

2-13 July 2019

Where dimensionality reaches the limits  
La Marana, 20600 Furiani, Corsica, France

## Keynote speakers

- M.C. ASENSIO, CSIC
- V. BOUCHIAT, NEEL-CNRS
- V. DUBROVSKII, St. Petersburg
- C. DELERUE, IEMN-CNRS
- A. FONTCUBERTA i MORRAL, EPFL
- V. FORGE, CEA
- A. GERESDI, QuTech TU Delft
- F. GLAS, C2N-CNRS
- M. HERSAM, Northwestern University
- S. ITHURRIA, ESPCI
- X. JEHL, CEA

- P. KROGSTRUP, Niels Bohr Institute
- X. MARIE, INSA Toulouse
- F. MARTELLI, CNR-IMM
- S. ROCHE, ICN2-ICREA
- R. RURALI, ICMAB-CSIC
- M. TCHENYCHEVA, C2N-CNRS
- D. VANMAEKELBERGH, Utrecht

## Confirmed industrial Contributors

- Ali CHIRAZI, FEI
- Armin KNOLL, IBM-Zürich
- Frank NOUVERTNE, RAITH
- Heike RIEL, IBM-Zürich
- Val ZWILLER, Quantum photon

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<https://www.isen-lille.fr/1d2d-nanomat/>

## Main scope

The 1D2DNanomat school will focus on new developments in the broad field of 1D and 2D semiconductor materials involving their synthesis, manufacturing and processing, as well as challenges with existing measurement capability. It will raise the needs for more rational design approaches thanks to modelling and simulation.

## Scientific topics

- 1D/2D semiconductor materials
- Physics of nano-structured materials
- Challenges in instrumentation and metrology
- Growth and synthesis of 1D/2D materials
- Pushing lithography to the limits
- Computational materials
- Current and prospective applications
- Towards quantum materials

## Program at a glance

Tuesday, July 2	Wednesday, July 3 1D/2D Materials	Thursday, July 4 The physics of nano-structured materials	Friday, July 5 Challenges in instrumentation	Saturday, July 6 Growth and synthesis	Sunday, July 7 Lithography to the limits
	Vladimir DUBROVSKII  Xavier MARIE	Riccardo RURALI  Attila GERESDI	Loïc LANCO  Vals ZWILLER	Frank GLAS  Sandrine ITHURRIA	Frank NOUVERTNE  Armin KNOLL
Arrival	Daniel VANMAEKELBERGH Pascal RUFFIEUX	Christophe DELERUE  3MT + Poster session	Old city of Bastia	Maria TCHERNYCHEVA	Jaros VOROS
Monday, July 8 Métrology I	Tuesday, July 9 Métrology II	Wednesday, July 10 Challenges in simulations	Thursday, July 11 Devices	Friday, July 12 Towards quantum materials	Saturday, July 13
Vincent BOUCHIAT	Maria C. ASENSIO	Ali CHIRAZI	Heike RIEL	Xavier JEHL	Departure
Corsica cape Tour	Faustino MARTELLI	Stephane ROCHE	Mark HERSAM	N. GONZALEZ/ Supervisory board meeting	
	Anna FONTCUBERTA  Jelena TRBOVIC	Short courses given by the ESRs  Leonid CHERURIN	Vincent FORGE  Nicolas GONZALEZ	Peter KROGSTRUP  Gala	

**ABSTRACT SUBMISSION :** deadline is **May 2**

**REGISTRATION:** deadline is **May 22**

1D2DNanomat has been selected as one of the international thematic schools of the CNRS in 2019.