

2021 NIMS Award Ceremony and Academic Symposium

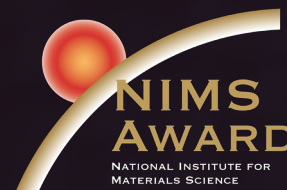
# Quantum Revolution in Nanomaterials

November 17th, 2021 (Wed.) 10:00 ~ 16:35

Virtual meeting (Online via Zoom)

Language: English (no simultaneous interpretation)

## ■ NIMS Award Winning Lectures



**Prof. Tsuneya Ando**

Honorary Professor, Emeritus Professor, Tokyo Institute of Technology/  
Emeritus Professor, University of Tokyo

**“Physics of Graphene”**



**Prof. Allan H. MacDonald**

Professor of Physics, University of Texas at Austin

**“The Magic of Moiré Materials”**



**Prof. Pablo Jarillo-Herrero**

Cecil and Ida Green Professor of Physics, Massachusetts Institute of Technology

**“The Moiré Quantum Matter Frontier”**

## ■ Symposium Invited Speakers

Prof. Hiroshi Mizuta ( Distinguished Professor and Vice President (Research Strategy), JAIST )

**“Graphene Nano-electro-mechanical Device Technology**

**for Extreme Sensing and Nanoscale Thermal Engineering”**

Prof. Shuichi Murakami ( Professor, Tokyo Institute of Technology )

**“New Horizons of Topological Materials”**



Registration : [https://www.nims.go.jp/nimsweek/e\\_index.html](https://www.nims.go.jp/nimsweek/e_index.html)

Contact : NIMS WEEK 2021 Secretariat <nimsweek@nims.go.jp>



## Program

Language: English (no simultaneous interpretation)

10:00 ~ 10:05	<b>Opening Remarks</b> President Kazuhito Hashimoto
10:05 ~ 10:10	<b>Greetings from MEXT</b>
10:10 ~ 10:25	<b>NIMS Award Ceremony</b>
<b>◆ NIMS Award Winning Lecture</b>	
10:25 ~ 11:05	<b>NIMS Award Winning-lecture (1)</b> Prof. Tsuneya Ando (Honorary Professor, Emeritus Professor, Tokyo Institute of Technology/ Emeritus Professor, University of Tokyo) “Physics of Graphene”
11:05 ~ 11:45	<b>NIMS Award Winning-lecture (2)</b> Prof. Allan H. MacDonald (Professor of Physics, University of Texas at Austin) “The Magic of Moiré Materials”
11:45 ~ 12:25	<b>NIMS Award Winning-lecture (3)</b> Prof. Pablo Jarillo-Herrero (Cecil and Ida Green Professor of Physics, Massachusetts Institute of Technology) “The Moiré Quantum Matter Frontier”
12:25 ~ 13:30	Break
<b>13:30 ~ 13:40</b>	
13:30 ~ 13:40	<b>Overview of Quantum Materials Research at NIMS</b> Dr. Takashi Taniguchi (Director, International Center for Materials Nanoarchitectonics (MANA))
<b>◆ Session 1</b>	
13:40 ~ 14:10	<b>[ Invited Talk 1 ]</b> Prof. Hiroshi Mizuta (Distinguished Professor and Vice President (Research Strategy), Japan Advanced Institute of Science and Technology (JAIST)) “Graphene Nano-electro-mechanical Device Technology for Extreme Sensing and Nanoscale Thermal Engineering”
14:10 ~ 14:30	<b>[ NIMS Talk 1 ]</b> Dr. Kenji Watanabe (Chief Researcher, Research Center for Functional Materials) “Optical Signature of Far-UV Luminous Hexagonal Boron Nitride”
14:30 ~ 14:50	<b>[ NIMS Talk 2 ]</b> Dr. Takashi Kuroda (Group Leader, Research Center for Functional Materials) “Development of Ultrabright Quantum Light Sources Using Semiconductor Quantum Dots Grown by Droplet Epitaxy”
14:50 ~ 15:10	<b>[ NIMS Talk 3 ]</b> Dr. Tokuyuki Teraji (Chief Researcher, Research Center for Functional Materials) “Diamond Crystal Growth Aiming at Quantum Magnetic Sensor Application”
15:10 ~ 15:20	Break
<b>◆ Session 2</b>	
15:20 ~ 15:50	<b>[ Invited Talk 2 ]</b> Prof. Shuichi Murakami (Professor, Department of Physics, Tokyo Institute of Technology) “New Horizons of Topological Materials”
15:50 ~ 16:10	<b>[ NIMS Talk 4 ]</b> Dr. Taichi Terashima (Group Leader, MANA) “Basic Research into Topological Materials and Vortex Manipulation”
16:10 ~ 16:30	<b>[ NIMS Talk 5 ]</b> Dr. Xiao Hu (MANA Principal Investigator / Group Leader, MANA) “Massive Chiral Quasiparticle and Topological Semiconductor Photonics”
16:30 ~ 16:35	<b>Closing</b>