



# IUMRS-ICEM 2018

AUGUST 19(SUN.) - 24(FRI.), 2018 / DAEJEON, KOREA

<b>Session Title</b>	<b>Topological Insulators : Materials, electronic structure, and transport properties I</b>	<b>Session Code</b>	<b>Fr-B1</b>
<b>Date and Time</b>	<b>2018-08-24 / 8:30 - 10:30</b>		
<b>Place</b>	<b>Room B</b>		
<b>Session Chair</b>	<b>TBA</b>		

Fr-B1-1

8:30 - 9:00

## **[Invited]Towards Topological Electronics: Epitaxial Thin Films of Topological Dirac Semimetal Na<sub>3</sub>Bi**

Michael Fuhrer<sup>1,2,3</sup>

<sup>1</sup>Future Low-Energy Electronics Tech., Australia, <sup>2</sup>Monash Centre for Atomically Thin Materials, Australia, <sup>3</sup>Monash Univ., Australia

Fr-B1-2

9:00 - 9:30

## **[Invited]What Are Unique Transport Signatures of Topological Insulators?**

Yong Chen<sup>1,2</sup>

<sup>1</sup>Purdue Univ, USA, <sup>2</sup>Tohoku Univ., Japan

Fr-B1-3

9:30 - 9:45

## **Quasiparticle Interference of The Nodal Line Dirac Semimetal ZrS<sub>2</sub>**

Bent Weber

Nanyang Technological Univ., Singapore

Fr-B1-4

9:45 - 10:00

## **Experimental Realization of Stable Topological Insulator by Ion Beam Irradiation**

Jun Kue Park, Chan Young Lee, and Chorong Kim  
KAERI, Korea

Fr-B1-5

10:00 - 10:15

## **Anisotropic Magnetoresistance Coupling in a NiFe/Ca-Bi<sub>2</sub>Se<sub>3</sub> Hybrid Structure**

Sung Jong Kim<sup>1,2</sup>, Youn Ho Park<sup>2</sup>, Chaun Jang<sup>2</sup>, Andrzej Hruban<sup>3</sup>, Stanislaw Strzelecka<sup>4</sup>, Andrzej Materna<sup>4</sup>, and Hyun Cheol Koo<sup>1,2</sup>

<sup>1</sup>KU-KIST Graduate School, Korea, <sup>2</sup>KIST, Korea, <sup>3</sup>Inst. of Physics Polish Academy of Sci., Poland, <sup>4</sup>Inst. of Electronic Materials Tech., Poland