14th RIEC International Workshop on Spintronics

Program

• November 17 (Thursday)

14:10-14:40

Th-6 A. Kent (New York University)

Pulsed Spin-Torque Switching in Perpendicularly Magnetized Magnetic Tunnel Junction Devices

14:40-15:10

Th-7 F. Matsukura (Tohoku University)

Magnetization Switching in Elliptic CoFeB/MgO Magnetic Tunnel Junctions

15:10-15:40

Th-8 R. Sousa (SPINTEC)

Second order anisotropy and easy cone regime in perpendicular magnetic tunnel junctions

16:10-16:40

Th-9 J. Shaw (NIST)

New insights into achieving ultra-low magnetic damping in metallic and half-metallic materials

16:40-17:10

Th-10 J. Åkerman (University of Gothenburg)

Mutually Synchronized Spin Hall Nano-Oscillators

17:10-17:40

Th-11 J. Bokor (Lawrence Berkeley National Laboratory)

Ultrafast charge current induced magnetization reversal in only 10 psec

November 18 (Friday)

9:00-9:30

Fr-1 P. Kelly (University of Twente)

Giant room temperature interface spin Hall and inverse SH effects

9:30-10:00

Fr-2 V. Amin (NIST)

Spin Transport at Interfaces with Spin-Orbit Coupling

10:00-10:30

Fr-3 J. C. Rojas-Sanchez (CNRS-Université de Lorraine)

Tuning the Spin Orbit Torque-critical current density to reverse perpendicular magnetization in $Co_x Tb_{1-x}$ ferrimagnetic based alloys

10:50-11:20

Fr-4 M. Kohda (Tohoku University)

Spin relaxation mechanism in single and poly crystalline Pt thin films

11:20-11:50

Fr-5 K. Olejnik (Academy of Sciences of the Czech Republic)

Fast electrical switching of a multi-state antiferromagnetic memory

11:50-12:20

Fr-6 B.-G. Park (KAIST)

Spin-orbit torque-induced in antiferromagnet/ferromagnet structures

14:00-14:30

Fr-7 W. Zhang (Oakland University)

Some aspects of spin-orbit torques and using antiferromagnets for spin current

14:30-15:00

Fr-8 S. Fukami (Tohoku University)

Spin-orbit torque switching for integrated circuits – from sub-ns memory to artificial intelligence

15:00-15:30

Fr-9 K.-J. Lee (Korea University)

Ferrimagnetic Spintronics: Prospects and Perspectives

• November 19 (Saturday)

9:00-9:30

Sa-1 P. Gambardella (ETH Zurich)

Spin-Orbit Torques and Magnetoresistance in Ferromagnet/Normal Metal Bilayers

9:30-10:00

Sa-2 S. Souma (Tohoku University)

Electronic band structure near the Fermi level of (Ga,Mn)As: High-resolution in-situ ARPES

10:00-10:30

Sa-3 A. Fujimori (University of Tokyo)

Electronic Structure of Dilute Ferromagnetic Semiconductors Revealed by ARPES

10:50-11:20

Sa-4 D. Chiba (University of Tokyo)

Electric field effect on magnetic properties in Co/Pt system

11:20-11:50

Sa-5 D. Ravelosona (CNRS, Univ. Paris-Sud)

Controlling domain wall dynamics by interface engineering in films with perpendicular magnetic anisotropy

11:50-12:10

Sa-6 S. Kanai (Tohoku University)

Thermal Agitation and Speed of Switching in Electric-field Induced Magnetization Reversal of CoFeB/MgO Magnetic Tunnel Junctions

12:10-12:40

Sa-7 T. Dietl (Polish Academy of Sciences)

Electric-field control of magnetic anisotropy in wz-(Ga,Mn)N by inverse piezoelectric effect