Oral Sessions

SQUID

Chairpersons: Akihiko Kandori (Hitachi) and Masahiro Ukibe (AIST)

ED3-1-INV 9:15–9:40

Ultra-Low Field MRI Application of High-Tc SQUID Magnetometer

*Saburo TANAKA

Toyohashi University of Technology

ED3-2-INV 9:40–10:05

Wide-area induction logging system using HTS-SQUID as a highly-sensitive magnetometer

*Tsunehiro Hato[1], Akira Tsukamoto[1], Seiji Adachi[1], Yasuo Oshikubo[1], Hidehisa Watanabe[2], Hidehiro Ishikawa[2], Chikara Okada[2], Ayato Kato[3], Makoto Harada[3], Keita Yoshimatsu[3], Yousuike Kunishi[3], Keiichi Tanabe[1]

1. SUSTERA; 2. MINDECO; 3. JOGMEC

ED3-3 10:05–10:25

Research on HTS-SQUID NDE technique for pipes based on ultrasonic guided wave

*Yoshimi Hatsukade, Natsuki Masutani, Shouta Teranishi, Ken Masamoto, Shouya Kanenaga

Kindai University, Faculty of Engineering

ED3-4 10:25–10:45

QUANTITATIVE AND HIGH-RESOLUTION MAGNETIC IMAGES OBTAINED BY STM-SQUID MICROSCOPE WITH DISTANCE MODULATION TECHNIQUE

*Tsutau Yokocho, Hideo Sato Akaba, Yuji Miyato

Osaka University

Detectors

Chairpersons: Takafumi Kojima (National Astronomical Observatory of Japan) and Hirotake Yamamori (AIST)

ED4-1-INV 11:00–11:25

Superconducting Receivers for ALMA Radio Telescope and Future Development

*Takafumi Kojima[1], Alvaro Gonzalez[1], Matthias Kroug[1], Yasunori Fujii[1], Keiko Kaneko[1], Wenlei Shan[1], Shinichiro Asayama[1], Yoshinori Uzawa[2], Kazumasa Makise[2], Hirotaka Terai[2], Zhen Wang[2]

1. National Astronomical Observatory of Japan; 2. National Institute of Information and Communications Technology

ED4-2 11:25–11:45

Development of Superconducting Detectors for Dark Matter Searches using Liquid Helium

*Hirokazu Ishino[1], Atsuko Kibayashi[1], Yosuke Kida[1], Naoto Hidehira[1], Yosuke Yamada[1], HIrotake Yamamori[2], Fuminori Hirayama[2], Satoshi Kohjiro[2]

1. Okayama University; 2. National Institute of Advanced Industrial Science and Technology (AIST)

ED4-3 11:45–12:05

GroundBIRD - quest for the begin of the Universe by using cutting-edge superconducting detectors, KIDs

*Jun'ya Suzuki, Osamu Tajima

High Energy Accelerator Research Organization (KEK)

ED4-4 12:05–12:25

Development of Iridium-Based Small TES

*Hiroyuki Takahashi, Masashi Ohno

The University of Tokyo

ED4-5 12:25–12:45

Delay line current-biased kinetic inductance detector for imaging

*Takekazu Ishida[1], Yuya Miki[1], Hiroyuki Yamaguchi[1], Hiroaki Shishido[1], Shigeyuki Miyajima[2], Mutsuo Hidaka[3], Tomio Koyama[4]

1. Osaka Prefecture University; 2. National Institute of Information and Communications Technology; 3. National Institute of Advanced Industrial Science and Technology; 4. Institute for Materials Research, Tohoku University