

Welcome to MXG16

September 26-28, 2016 at Osaka, Japan

The 6th Yamada workshop on Muonic X and Gamma ray Spectroscopy, MXG16, will be held for September 26 - 28, 2016 in Osaka University, Suita, Osaka, Japan. The main goal of this workshop is to open up new opportunities for researchers from academia and industry to use muonic X-rays and gamma-rays, which are emitted from material after a negative muon stopped in it. In the workshop, we will discuss new science frontiers by muonic X and gamma ray spectroscopy. Recently, new developments have been made on spectroscopic studies of muonic X-rays and muon capture gamma rays and DC/pulsed muon probes. They have made it possible to study new aspects of fundamental science, including nuclear particle and astro nuclear physics, atomic and molecular chemistry, electron transport life science, astro-geo science and related science. The workshop aims to discuss current subjects with active scientists in these fields and to promote new inputs and exchanges of scientists over the fields.

A tentative list of workshop topics to be covered includes:

- Neutrino nuclear physics and astro neutrino physics by muon weak interactions. Nuclear and proton structures via muon EM.
- Atomic and molecular chemistry
- Elemental and isotope identification by muonic X and/or gamma rays spectroscopy
- Astro and geo science by muonic X rays and gamma rays
- Muon sources and beam channels
- Other any topic related with negative muons

This is the 6th Yamada Workshop organized and supported by [the Yamada Science Foundation](#), and is held under the auspices of [Research Center for Nuclear Physics \(RCNP\)](#), [Osaka University](#) and [the Society of Muon and Meson Science of Japan](#).

The MXG16 workshop is followed by a related workshop [NNR16: Neutrino nuclear responses for double beta decays and astro-neutrino interactions](#), which will be held at the same venues from 29-30 September, 2016.

A List of Speakers (Tentative)

- Hiro Ejiri (RCNP, Japan)
- Dieter Frekers (Univ. Muenster, Germany)
- Izyan Hazwani Hashim (Universiti Teknologi Malaysia, Malaysia)
- Adrian Hillier (RAL, UK)
- Katsuhiko Ishida (RIKEN, Japan)
- Naritoshi Kawamura (KEK, Japan)
- Haris Kosmas (Univ. Ioania, Greece)
- Kenya Kubo (ICU, Japan)
- Teiichiro Matsuzaki (RIKEN, Japan)
- Yasuhiro Miyake (KEK, Japan)
- Yoshiharu Mori (KURRI, Japan)
- Kazuhiko Ninomiya (Osaka University, Japan)
- Takahito Osawa (JAEA, Japan)
- Takeshi Saito (University of Tokyo, Japan)
- Siti Syahirah Saroni (Universiti Teknologi Malaysia, Malaysia)
- Akira Sato (Osaka University, Japan)
- Tatsushi Shima (RCNP, Japan)
- Koichiro Shimomura (KEK, Japan)
- Patrick Strasser (KEK, Japan)
- Jouni Suhonen (Univ. Jyvaskyla, Finland)
- Keiji Takahisa (RCNP, Japan)
- Motonobu Tampo (KEK, Japan)
- Akihiro Taniguchi (KURRI, Japan)
- Kentaro Terada (Osaka University, Japan)
- Dai Tomono (RCNP, Japan)
- Kai Zuber (Inst. f. Kern- und Teilchenphysik, Germany)

Organizing Committee

- Chair: Akira Sato (Osaka University, e-mail: sato _at_ phys.sci.osaka-u.ac.jp)
- Naritoshi Kawamura (KEK)
- Kazuhiko Ninomiya (Osaka University)
- Teiichiro Matsuzaki (RIKEN)
- Tatsushi Shima (RCNP, Osaka University)
- Koichiro Shimomura (RCNP, Osaka University/KEK)
- Dai Tomono (RCNP, Osaka University)

International Advisory Committee

- Hiro Ejiri (RCNP, Osaka University)
- Dieter Frekers (Univ. Muenster)
- Kenya Kubo (ICU)
- Yoshitaka Kuno (Osaka University)
- Haris Kosmas (University of Ioannina)
- Glen Marshall (TRIUMF)
- Yasuhiro Miyake (KEK)
- Kenetada Nagamine (RIKEN)
- Takashi Nakano (RCNP, Osaka University)
- Hiroyoshi Sakurai (RIKEN)
- Atushi Shinohara (Osaka University)
- Jouni Suhonen (Univ. Jyvaskyla)
- Kentaro Terada (Osaka University)
- Kai Zuber (Technische Universität Dresden)