



University of Tsukuba

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筑波大学

宇宙史研究センター

Tomonaga Center for the History of the Universe



Tomonaga Center Symposium
at the 50th Anniversary of the University of Tsukuba



Origins and Evolution of the Universe, Matter and Life

28/Sep/2023 (Thu)

Tomonaga Center for the History of the Universe (TCHoU)
Institute of Pure and Applied Sciences, University of Tsukuba

International Conference Room, University Hall

Program

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|---------------|---|--|
| 9:40 – 10:00 | Registration | |
| 10:00 – 10:50 | Chair: F. Ukegawa | |
| 10:00 – 10:05 | Opening Address | |
| | Yasuteru SHIGETA | Vice President of Research, University of Tsukuba |
| 10:05 – 10:10 | Introduction to TCHoU | |
| | Nario KUNO | Director, TCHoU |
| 10:10 – 10:20 | Division of Elementary Particles | |
| | Yuji TAKEUCHI | TCHoU |
| 10:20 – 10:30 | Division of Quark Nuclear Matters | |
| | Shinichi ESUMI | TCHoU |
| 10:30 – 10:40 | Division of Antarctic Astronomy | |
| | Nario KUNO | TCHoU |
| 10:40 – 10:50 | Division for Development of Photon and Particle Detectors | |
| | Akira OZAWA | TCHoU |
| 10:50 – 11:00 | Break | |



- 11:00 – 12:30 Chair: N. Kuno
- 11:00 – 11:40 *Quest to understand the chemical origin of the Solar System*
Nami SAKAI RIKEN, Japan
- 11:45 – 12:30 *The physics of neutrinos: Dirac vs. Majorana*
C. S. LIM The Physical Society of Japan, Japan
- 12:30 – 12:40 *Group photo*
- 12:40 – 14:00 *Lunch*
- 14:00 – 15:30 Chair: S. Esumi
- 14:00 – 14:40 *Particle and nuclear physics at J-PARC*
Takashi KOBAYASHI KEK/JAEA, Japan
- 14:45 – 15:25 *Imaging of black hole shadow from the Arctic region*
Paul HO East Asian Observatory, Taiwan
- 15:30 – 15:50 *Break*
- 15:50 – 17:25 Chair: Y. Takeuchi
- 15:50 – 16:30 *The Universe in the lab: current and future science at GSI/FAIR*
Paolo GIUBELLINO GSI, Germany
- 16:35 – 17:15 *Accelerators: What they are good for*
Nigel LOCKYER Cornell University, USA
- 17:20 – 17:25 *Closing remarks*
Fumihiko UKEGAWA TCHoU
- 17:30 *Adjourn*