ICEPP Joint Research Program in FY2022

Research Project Title	Representative and Project Organization
Studies of Micro-Megas detector for the ATLAS muon	Atsushi Ochi (Kobe University) and
system upgrade	4 researchers (Kobe University, ICEPP)
Studies on the control system of large-scale electronics	Masaya Ishino (ICEPP) and 6 researchers
using a System-On-a-Chip (SoC) towards the	(Nagoya University, KEK, ICEPP)
High-Luminosity LHC era	(Nagoya University, KEK, ICEFF)
	Tashi Camida (Varata Hairamita) and
Search for electroweak SUSY in degenerate mass	Toshi Sumida (Kyoto University) and
region with the ATLAS detector at the Large Hadron	7 researchers (Kyoto University, ICEPP)
Collider	I1. T1 (ICEDD)121
Search for Axion-like particle with forward-protron	Junichi Tanaka (ICEPP) and 3 researchers
detector at the ATLAS experiment	(Czech Technical University in Prague,
	ICEPP)
Exploring the performance improvement of the muon	Junpei Maeda (Kobe University) and
trigger system for the LHC Run-3	11 researchers (KEK, Kobe University, Kyoto
	University, ICEPP)
Establishment of research facility for remote	Yasuyuki Okumura (ICEPP) and
collaboration for LHC-ATLAS muon trigger	9 researchers (KEK, ICEPP, Kobe University,
development	Nagoya University, Kyoto University)
Studies for extension of the grid computing system	Tomoaki Nakamura (KEK) and 6 researchers
towards High-Luminosity LHC program	(KEK, ICEPP)
Search for new physics in the electroweak sector	Takanori Kono (Ochanomizu University) and
through the vector-boson generation processes with the	6 researchers (Kyoto University, Waseda
ATLAS experiment at the Large-Hadron-Collider	University, ICEPP, Ochanomizu University)
Research on quantum computers for application to High	Kohei Yorita (Waseda University) and
Energy Physics	7 researchers (Waseda University, ICEPP)
R&D for new data-processing and data-analysis system	Masako Iwasaki (Osaka Metropolitan
using machine learning	University) and 6 researchers (Osaka
	Metropolitan University, ICEPP)
Research on the background and sensitivity of the MEG	Wataru Ootani (ICEPP) and 10 researchers
experiment	(KEK, Kyushu University, INFN-Pisa,
	INFN-Rome, ICEPP)
Studies to improve the performance of the Liquid	Satoshi Mihara (KEK) and 5 researchers
Xenon detector for the MEG experiment	(ICEPP, Kyushu University, University of
Action detector for the MES experiment	California, Irvine)
Experimental studies for long-term operation of the	Yasuhiro Makita (KEK) and 8 researchers
cryogenic and purification system for the liquid Xenon	(ICEPP, KEK, PSI/University of Pisa)
detector of the MEG experiment	(ICLII, KEK, I SI/OIIIVEISILY OI FISA)
•	Hajime Nishiguchi (KEK) and 6 researchers
Studies to improve the performance of the electron spectrometer for the MEG experiment	, ,
*	(KEK, ICEPP, INFN-Rome)
R&D for next generation $\mu \rightarrow e \gamma$ search experiment	Wataru Ootani (ICEPP) and 9 researchers
	(Kobe University, KEK, PSI, INFN-Rome,
	ICEPP)
Studies of the electro-symmetry breaking mechanism in	Daniel Jeans (KEK) and 5 researchers (KEK,
the ILC experiment	ICEPP, Kyushu University, Nippon Dental
	University)
Development of the fine-grained electro-magnetic	Taikan Suehara (Kyushu University) and
calorimeter for the ILC experiment	5 researchers (Kyushu University, ICEPP,
	KEK)
Development of the fine-grained electro-magnetic	Tohru Takeshita (Shinshu University) and
calorimeter for the ILC experiment	4 researchers (ICEPP, Kyushu University)