

ICEPP Joint Research Program in FY2020

Research Project Title	Representative and Project Organization
Studies of Micro-Megas detector for the ATLAS muon system upgrade	Atsushi Ochi (Kobe University) and 4 researchers (Kobe University, ICEPP)
Studies on the control system of large-scale electronics using a System-On-a-Chip (SoC) towards the High-Luminosity LHC era	Masaya Ishino (ICEPP) and 7 researchers (Nagoya University, KEK, ICEPP)
Search for new physics via resonance of two weak-bosons with the ATLAS detector at the Large Hadron Collider	Toshi Sumida (Kyoto University) and 7 researchers (Kyoto University, Waseda University, ICEPP)
Search for Axion-like particle with forward-proton detector at the ATLAS experiment	Junichi Tanaka (ICEPP) and 3 researchers (Czech Technical University in Prague, ICEPP)
Exploring the performance improvement of the muon trigger system for the LHC Run-3	Junpei Maeda (Kobe University) and 12 researchers (KEK, Kobe University, Kyoto University, ICEPP)
Studies for extension of the grid computing system towards High-Luminosity LHC program	Tomoaki Nakamura (KEK) and 5 researchers (KEK, ICEPP)
Research on quantum computers for application to High Energy Physics	Kohei Yorita (Waseda University) and 10 researchers (Waseda University, ICEPP)
Research on the background and sensitivity of the MEG experiment	Wataru Ootani (ICEPP) and 10 researchers (KEK, Kyushu University, INFN-Pisa, INFN-Rome, ICEPP)
Studies to improve the performance of the Liquid Xenon detector for the MEG experiment	Satoshi Mihara (KEK) and 7 researchers (ICEPP, Kyushu University, University of California, Irvine)
Experimental studies for long-term operation of the cryogenic and purification system for the liquid Xenon detector of the MEG experiment	Yasuhiro Makita (KEK) and 8 researchers (ICEPP, KEK, PSI/University of Pisa)
Studies to improve the performance of the electron spectrometer for the MEG experiment	Hajime Nishiguchi (KEK) and 6 researchers (KEK, ICEPP, University of Rome Sapienza)
Development of the fine-grained hadronic calorimeter for the ILC experiment	Tohru Takeshita (Shinshu University) and 4 researchers (ICEPP, Shinshu University)
Studies of the electro-symmetry breaking mechanism in the ILC experiment	Daniel Jeans (KEK) and 8 researchers (KEK, ICEPP, Kyushu University, Nippon Dental University)
Development of the fine-grained electro-magnetic calorimeter for the ILC experiment	Tamaki Yoshioka (Kyushu University) and 4 researchers (Kyushu University, ICEPP, KEK)