

Overview of Prof. Sugawara's Achievements

Prof. Sugawara, specializing in the theoretical study of particle physics, has made outstanding contributions in the broad areas of particle physics.

In studying the symmetry of weak interactions, he derived a relation called the “Lee-Sugawara relation”, for which he was awarded the Nishina Memorial Prize on December 6, 1971. He was also awarded the Toray Science and Technology Prize on March 25, 1996 for his paper “A field theory of currents” (1968) that opened the door to the algebraic formulation of field theories called the “Sugawara construction”.

On April 29, 1999, he was awarded the Medal of Honor with Purple Ribbon. In addition to his outstanding contributions to theoretical physics, Prof. Sugawara contributed significantly to the B-Factory project as the Director General of the KEK Japanese National Laboratory for High Energy Physics. He also provided strong leadership in setting up the long-baseline neutrino oscillation experiment connecting the proton synchrotron at the High Energy Accelerator Research Organization and the Super-Kamiokande in Kamioka, Gifu Prefecture. Furthermore, he led the launch of “J-PARC” (Japan Proton Accelerator Research Complex) that was jointly developed between the High Energy Accelerator Research Organization and the Japan Atomic Energy Agency.

Since his appointment as a trustee to manage and operate the Graduate University for Advanced Studies following its nationalization, Prof. Sugawara served throughout his entire term as Chair of the Steering Committee, a pillar of the university's management. He also served as Director of the Hayama Center of Advanced Research of the Graduate University for Advanced Studies and launched three projects entitled “Human Life Science”, “Bioscience Based on Physics”, and “Science and Humanity”, in which he worked as a leading researcher, to promote multidisciplinary research.

Prof. Sugawara served as the Director of the Washington DC Office of the Japanese Society for the Promotion of Science from May 2008 to March 2012, during which he contributed to the internationalization of the science and technology policy of Japan, while promoting research collaboration between Japan and the U.S.