

Curriculum Vitae

Name Shunzo Kumano
Position Senior Fellow, Professor Emeritus
Address Institute of Particle and Nuclear Studies
High Energy Accelerator Research Organization (KEK)
Oho 1-1, Tsukuba, Ibaraki, 305-0801, Japan
Telephone 029-879-6094
Email shunzo.kumano@kek.jp
URL <http://research.kek.jp/people/kumanos/>
Date of Birth ■■ ■■, 1956
Citizenship Japan
Research Field Theoretical Physics, Hadron Physics

Education

Bachelor of Science (Physics), March 27, 1979, Saga University, Japan
Master of Engineering (Information Processing), March 28, 1981,
Tokyo Institute of Technology, Japan
Doctor of Philosophy (Physics), September 18, 1985,
Massachusetts Institute of Technology, USA

Professional Experience

Research Associate (8/1985–12/1987)
Department of Physics, University of Illinois at Urbana-Champaign, USA
Research Associate (1/1988–8/1989)
Department of Physics and Astronomy, University of Tennessee, USA
and Physics Division, Oak Ridge National Laboratory, USA
Research Associate (9/1989–7/1992)
Nuclear Theory Center, Indiana University, USA
[Visitor (8/1992), Institute for Nuclear Study, University of Tokyo, Japan]
Research Associate (9/1992–3/1993)
Institute for Nuclear Physics, University of Mainz, Germany
Associate Professor (4/1993–7/2000)
Department of Physics, Saga University, Japan
Professor (8/2000–12/2004)
Department of Physics, Saga University, Japan
Professor (1/2005–present)
Institute of Particle and Nuclear Studies,
High Energy Accelerator Research Organization (KEK), Japan
(joint) Professor, Department of Particle and Nuclear Physics,
Graduate University for Advanced Studies, Japan
(joint) Scientist, Particle and Nuclear Physics Division, J-PARC Center, Japan
Professor Emeritus (4/2020–present)
High Energy Accelerator Research Organization (KEK), Japan
Graduate University for Advanced Studies, Japan
Senior Fellow (4/2020–present)
Support Center for Accelerator Science and Technology
and Institute of Particle and Nuclear Studies,
High Energy Accelerator Research Organization (KEK), Japan
(joint) Scientist, Particle and Nuclear Physics Division, J-PARC Center, Japan

Teaching (2005-2020)

- (2007-2019) Lectures on Introduction to Hadron and Nuclear Physics Theory I (in English), School of High Energy Accelerator Science, Graduate University for Advanced Studies
 - (2006) Lectures on Hadron physics, School of High Energy Accelerator Science, Graduate University for Advanced Studies
 - (2006-2019) Exercise for Particle and Nuclear Physics, School of High Energy Accelerator Science, Graduate University for Advanced Studies
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- (2019) Lectures on Nuclear Physics, College of Physics, School of Science and Engineering, Tsukuba University, Tsukuba, Japan, December 6, 13, 20, 2019.
 - (2017) Lectures on Structure functions of nucleons and nuclei, Yukawa Institute, Kyoto University, Kyoto, Japan, February 23-24, 2017.
 - (2014) Lectures on Parton distribution and fragmentation functions, 17th Taiwan Nuclear Physics Summer School, Academia Sinica, Taipei, Taiwan, August 25-28, 2014.
 - (2011) Lectures on Brief overview on hadron physics at J-PAPC, First Internship Program under CKorJ-PARC/J-PARC Center Collaboration, Tokai, Japan, February 9-17, 2011.
 - (2007) Lectures and Tutorials on Deep inelastic scattering with neutrino beam, 6th International School on Neutrino Factories, Superbeams and Betabeams, KEK, Tsukuba, Japan, July 27 - August 4, 2007.
 - (2007) Lectures on Spin structure of nucleons and J-PARC hadron physics, Hokkaido Nuclear Physics Summer School, Sapporo Gakuin University, Ebetsu, Japan, July 14-16, 2007.
 - (2007) Lectures on Global QCD analysis, Spin Fest at Riken 2007, Riken, Wako, Japan, June 25-28, 2007.
 - (2007) Lectures on Structure functions of nucleons and nuclei, Undergraduate School, Niigata University, Niigata, Japan, January 23-25, 2007.
 - (2005) Lectures on Determination of polarized distribution functions, PHENIX Spin Fest, Riken, Wako, Japan, July 25-29, 2005.
 - (2005) Lectures on Structure functions of nucleons and nuclei, Graduate School, Tokyo Institute of Technology, Tokyo, Japan, July 13-15, 2005.
 - (2005) Lectures on Structure of nucleons and nuclei: parton distribution functions, KEK Summer School, KEK, Tsukuba, Japan, June 14-16, 2005.

Teaching (1993-2004)

- (1993-2004) Lectures on Classical Mechanics A, B
Department of Physics, Saga University
 - (1993-1999) Lectures on Classical Mechanics C, D
Department of Physics, Saga University
 - (2001-2004) Lectures on Physical Mathematics D,
Department of Physics, Saga University
 - (2000-2004) Lectures on Introduction to Physics A,
Department of Physics, Saga University
 - (2000-2004) Lectures on Microscopic World,
Saga University
 - (1993-2004) Lectures on Advanced Quantum Mechanics,
Department of Physics, Graduate School, Saga University
 - (1993-1999) Lectures on Nuclear and Particle Physics,
Department of Physics, Saga University
 - (1993-2004) Graduation Research,
Department of Physics, Saga University
 - (1993-2004) Special Research,
Department of Physics, Graduate School, Saga University
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- (2004) Lectures on Introduction to internal structure of proton,
Ohmura High School,
Ohmura, Nagasaki, Japan, August 26, 2004.
 - (1997) Lectures on Structure functions in nucleons and nuclei,
Hokkaido Nuclear Physics Summer School in 1997,
Yubari, Hokkaido, Japan, August 18-21, 1997.
 - (1996) Lectures on Structure functions in nucleons and nuclei,
(1996) Department of Physics, Graduate School, Tokyo Metropolitan University,
Tokyo, Japan, November 25-27, 1996.
 - (1994) Lectures on Structure functions of nucleons and nuclei,
Department of Physics, Graduate School, Kyoto University,
Kyoto, Japan, June 21, 1994.

Thesis supervisor at graduate schools

Graduate University for Advanced Studies, School of High Energy Accelerator Science,
Department of Particle and Nuclear Physics, Doctor of Science / Doctor of Philosophy

- 2019, September: Qin-Tao Song, “Structure Functions of Pion and Deuteron”
Recipient, Scholarship for International Student by Japanese Ministry
of Education, Culture, Sports, Science and Technology (MEXT)
Ph.D. Thesis: 3rd SOKENDAI Award
- 2007, March: Takahiro Nagai, “Determinations of Fragmentation Functions
and Nuclear Parton Distribution Functions”
Japan Society for the Promotion of Science (JSPS) Research Fellow

Saga University, Graduate School of Science and Engineering,
Department of Energy and Materials Science, Doctor of Science

- 2001, March: Masanori Hirai, “Optimization of Polarized Parton Distributions”
Japan Society for the Promotion of Science (JSPS) Research Fellow
- 1999, March: Masanori Miyama, “ Q^2 Evolution of Transversity Distributions
and Flavor Asymmetries of Sea Quarks”
Japan Society for the Promotion of Science (JSPS) Research Fellow

Saga University, Graduate School of Science and Engineering,
Department of Physics, Master of Science

- 2006, March: Yusuke Shibata, “ Q^2 Evolution of Quark Distributions
and Its Numerical Solution”
(Official supervisor: Hiroaki Kouno)
- 2005, March: Takahiro Nagai, “Optimization of Polarized Nuclear Parton
Distribution Functions”
- 2004, March: Hidefumi Iwakiri, “Effects of Vector Mesons on Deuteron b_1 ”
- 2004, March: Mitsuaki Nakamura, “Determination of Nuclear Parton Distributions
by Data Analysis of Structure Function F_2
and Drell-Yan Cross Sections”
- 2004, March: Kosuke Nozoe, “Numerical Analysis of Q^2 Evolution Equations
and Charm Threshold”
- 1999, March: Satoko Hino, “Structure Functions of Polarized Proton-Deuteron
Drell-Yan Processes
- 1998, March: Masanori Hirai, “ Q^2 Dependence of Polarized Parton Distributions”
- 1998, March: Kazuaki Umekawa, “Nuclear Structure Function F_2
and Sea-Quark and Gluon Distributions”
- 1996, March: Masanori Miyama, “ Q^2 Dependence of Nucleonic and Nuclear
Structure Functions”
- 1995, March: Ryoko Kobayashi, “Structure Functions F_3 of Nucleons and Nuclei”
- 1995, March: Masataka Konuma, “ Q^2 Evolution of Quark-Gluon Distributions”

Committee Members of International Conferences (2005-2020)

- International Advisory Committee (IAC),
Remote workshop “Gluon content of proton and deuteron with the Spin Physics Detector at the NICA collider”,
Online (Dubna, Russia), 2020.9.30-10.1.
- Scientific Program Committee,
24th International Spin Symposium,
Matsue, Japan, 2020.9.21-25 (postponed due to COVID-19).
- IAC, International Workshop on Electromagnetic Interactions with Nucleons and Nuclei,
Paphos, Cyprus, 2019.10.27-11.02.
- Local Organizing Committee, 11th Circum-Pan-Pacific Symposium on
High Energy Spin Physics,
Miyazaki, Japan, 2019.8.27-30.
- IAC, 15th International Conference on Meson-Nucleon Physics
and the Structure of the Nucleon,
Carnegie Mellon University, Pittsburgh, Pennsylvania, USA, 2019.6.2-7.
- Scientific Program Committee, International Workshop on
Neutrino-Nucleus Interactions in the Few-GeV Region,
L’Aquila, Italy, 2018.10.15-19.
- IAC, 23rd International Symposium on Spin Physics and Related Phenomena,
Ferrara, Italy, 2018.9.10-14.
- IAC, International Workshop on New Frontiers in QCD 2018
– Confinement, Phase Transition, Hadrons, and Hadron Interactions –,
Kyoto University, Kyoto, Japan, 2018.5.28-6.29.
- IAC, International Workshop on Electromagnetic Interactions with Nucleons and Nuclei,
Paphos, Cyprus, 2017.10.29-11.4.
- Session Convener, 11th International Workshop on
Neutrino-Nucleus Scattering in the Few-GeV Region,
Toronto, Canada, 2017.6.25-30.
- IAC, 14th International Conference on Meson-Nucleon Physics
and the Structure of the Nucleon,
Kyoto University, Kyoto, Japan, 2016.3.2-4.
- IAC, 10th Circum-Pan-Pacific Spin Symposium on High Energy Spin Physics,
Taipei, Taiwan, 2015.10.5-8.
- IAC, 7th International Conference on Quarks and Nuclear Physics,
Valparaiso, Chile, 2015.3.2-6.
- IAC, 4th International workshop on Nucleon Structure at Large Bjorken x ,
Laboratori Nazionali di Frascati, Italy, 2014.11.16-21.
- IAC, 9th International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Re-
gion,
Selsdon Park Hotel, Surrey, UK, 2014.5.19-24.
- IAC, 9th Circum-Pan-Pacific Spin Symposium on High Energy Spin Physics,
Shandong University, Jinan, China, 2013.10.28-31.

- IAC, International School for Strangeness Nuclear Physics, J-PARC, Tokai and Tohoku University, Sendai, Japan, 2012.2.12-18.
- IAC, 8th Circum-Pan-Pacific Spin Symposium on High Energy Spin Physics, Cairns, Australia, 2011.6.20-24.
- Scientific Program Committee, 7th International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region, Dehradun, Uttarakhand, India, 2011.3.7-11.
- IAC, 12th International Conference on the Structure of Baryons, Osaka, Japan, 2010.12.7-11.
- IAC, 3rd International Workshop on Nucleon Structure at Large Bjorken x , Jefferson Lab, Newport News, Virginia, USA, 2010.10.13-15.
- IAC, International Workshop on High Energy Strong Interactions 2010: Parton Distributions and Dense QCD Matter, Kyoto, Japan, 2010.7.26-8.27.
- IAC, 7th Circum-Pan-Pacific Spin Symposium on High Energy Spin Physics, Yamagata, Japan, 2009.9.15-18.
- Scientific Program Committee, 6th International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region, Sitges (Barcelona), Spain, 2009.5.18-22.
- IAC, 6th International Conference on Perspectives in Hadronic Physics, International Centre for Theoretical Physics (ICTP), Trieste, Italy, 2008.5.12-16.
- Program Committee, International Nuclear Physics Conference, Tokyo, Japan, 2007.6.3-8.
- Scientific Program Committee, 4th International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region, Okayama, Japan, 2005.9.26-29.

External Committee Members and Affiliations (2005-2020)

- Nuclear Theory Executive Committee in Japan (2005-2009, 2013-2018)
- Chairperson (2014.4-2015.3), Nuclear Theory Executive Committee in Japan
- Executive Secretary (2013.4-2014.3), Nuclear Theory Executive Committee in Japan
- Representative (2016-2020), Physical Society of Japan
- Field Representative (2008), Nuclear Theory Field, Physical Society of Japan
- Vice Field Representative (2007), Nuclear Theory Field, Physical Society of Japan
- Program Committee (2006), Nuclear Theory Field, Physical Society of Japan
- Secretariat (2010-2011), Nuclear Theory Community in Japan
- Visiting Scientist (2005-2020), RIKEN
- Lecturer (2017), Yukawa Institute, Kyoto University
- Visiting Scholar (2010, 2011), Institute for Nuclear Theory, University of Washington
- Lecturer (2007), Department of Physics, Niigata University
- Lecturer (2005), Department of Physics, Tokyo Institute of Technology
- Author (2011-2013), Summary Article on Physics of the B-factories
- Author (2010-2012), Future Planning of Nuclear Physics in Japan

**Committee Members at KEK and Graduate University for Advanced Studies
(2005-2020)**

- Managing Committee (2015-2019), Institute of Particle and Nuclear Studies, KEK
- Self-Evaluation Committee (2006-2009,2016-2018), KEK
- Leader (2011-2019), J-PARC Theory Branch, KEK Theory Center, Institute of Particle and Nuclear Studies, KEK
- Leader (2011-2019), Theory Group, Particle and Nuclear Physics Division, J-PARC Center
- Author on Nuclear Physics (2008-2015), KEK Physics Book Series, KEK
- Promotion Committee (2005-2018), Large-Scale Simulation Projects, KEK
- Evaluation Committee (2005-2013), Large-Scale Simulation Proposals, KEK
- Program Advisory Committee (2008-2013), Japan Proton Accelerator Research Complex (J-PARC)
- Future Planning Committee (2005-2006), Institute of Particle and Nuclear Studies, KEK
- Steering Committee (2005-2006), Institute of Particle and Nuclear Studies, KEK

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- Promotion Committee for Education (2013-2016), School of High Energy Accelerator Science, Graduate University for Advanced Studies
 - Self-Evaluation Committee (2013-2016), School of High Energy Accelerator Science, Graduate University for Advanced Studies

Conference Organizations (2005-2020)

- Workshop on Nuclear and hadron physics in 2020
Online (KEK, Tsukuba), 2020.9.29,10.2,10.6,10.9
Akinobu Dote, Kenji Fukushima, Kouichi Hagino, Masayasu Harada, Yoshimasa Hidaka, Tetsuo Hyodo, Kazunori Itakura, Daishuke Jido, Masaaki Kimura, Masakiyo Kitazawa, Shunzo Kumano, Masatoshi Maruyama, Akihiko Monnai, Osamu Morimatsu*, Hideko Nagahiro, Takashi Nakatsukasa, Kazuyuki Ogata, Shoichi Sasaki, Kazuhiro Tanaka (*chair)
- Workshop on Intersections of Particle and Nuclear Collider Physics
Online (KEK, Tsukuba), 2020.8.31-9.1
Yuji Goto*, Shoji Hashimoto, Kentaro Kawade, Shunzo Kumano*, Yoshiyuki Miyachi, Itaru Nakagawa, Ralf Seidl, Yuji Yamazaki (*co-chair)
- Workshop on Femtotechnologies by Quantum Computers in 2020
KEK, Tsukuba, Japan, 2020.3.7 (postponed due to COVID-19),
S. Kumano, I. Tsutsui
- Workshop on Physics of Heavy-Quark and Exotic Hadrons,
KEK, Tokai, Japan, 2020.1.27-29,
S. Kumano, O. Morimatsu, M. Takizawa, P. Gubler, K. Tanida, A. Hosaka
- Workshop on Nucleon Electric Dipole Moments and Spin Structure in 2020,
KEK, Tokai, Japan, 2020.1.11,
S. Kumano, T. Mibe, T. Sato, K. Tanaka
- 11th Circum-Pan-Pacific Symposium on High Energy Spin Physics,
Miyazaki, Japan, 2019.8.27-30,
T. Iwata, T. Matsuda, T.-A. Shibata; N. Doshita, Y. Goto, Y. Hatta, Y. Koike, S. Kumano, Y. Maeda, Y. Miyachi, K. Nagai, I. Nakagawa, K. Nakano, G. Nukazuka, S. Sasaki, S. Sawada, R. Seidl, K. Tanaka
- Workshop on Progress of QCD and Nucleon Structure in 2019
KEK, Tsukuba, Japan, 2019.2.28-3.1,
S. Kumano, K. Tanaka
- Workshop on Neutrino-Nucleus Reactions and Neutrino Interactions
KEK, Tokai, Japan, 2019.2.22-23,
S. Kumano, T. Sato.
- Workshop on Progress on Hadron Structure Functions,
KEK, Tsukuba, Japan, 2018.11.18-19,
Y. Goto, S. Kumano, K. Tanaka.
- 8th International Conference on Quarks and Nuclear Physics,
Tsukuba International Conference Hall, Tsukuba, Japan, 2018.11.13-17,
A. Dote, Y. Goto, M. Harada, A. Hosaka, K. Itakura, H. Kamano, S. Kumano*, A. Monnai, O. Morimatsu, S. N. Nakamura, M. Naruki, H. Noumi, H. Ohnishi, K. Ozawa, H. Sako, F. Sakuma, S. Sawada*, H. Takahashi, T. Takahashi, K. Tanaka, K. Tanida (* Co-chair)
- Workshop on Shallow- and Deep-Inelastic Scattering,
L'Aquila, Italy, 2018.10.11-13,
L. Alvarez-Ruso, C. Bronner, H. Gallagher, Y. Hayato, T. Katori*, S. Kumano, J. G. Morfin*, U. Mosel, J. Owens, J. Paley, R. Petti, J. Sobczyk.

- Workshop on GPD Studies at JLab, J-PARC, and Future EIC, KEK, Tokai, Japan, 2018.5.8, S. Kumano, K. Tanaka.
- Pre-workshop for the Conference on Deep Inelastic Scattering: EIC Project, Kobe, Japan, 2018.4.15, Y. Akiba, A. Deshpande, Y. Goto, Y. Hatta, Y. Itow, S. Kumano, Y. Miyachi, I. Nakagawa, R. Seidl, B. Surrow, K. Tanaka, Y. Yamazaki.
- Workshop on New Horizons of Weak Value, Weak Measurements, Entanglement, and Quantum Coherence, KEK, Tsukuba, Japan, 2018.2.21-22, S. Iso, K. Iwano, S. Kumano, Y. Kuramoto, I. Tsusui.
- Workshop on Summary of KEK-Theory-Center J-PARC Branch Activities, KEK, Tokai, Japan, 2018.2.1-2, A. Dote, T. Harada, K. Itakura, M. Kitazawa, S. Kumano, O. Morimatsu, T. Sato, M. Takizawa, K. Tanaka.
- Workshop on Gravitational Physics with Particle Accelerators 2017, KEK, Tokai, Japan, 2017.11.30, S. Kumano, T. Mibe, S. Mizoguchi, J. Murata.
- Workshop on Research Forefront of Theoretical Nuclear Physics in 2017, KEK, Tsukuba, Japan, 2017.11.20-22, M. Asakawa, A. Dote, K. Fukushima, K. Hagino, M. Harada, S. Hirenzaki, A. Hosaka, K. Itakura, H. Kamano, M. Kimura, S. Kumano, O. Morimatsu, T. Nakatsukasa, A. Ohnishi.
- Workshop on Neutrino-Nucleus Interaction in a Few GeV Region, KEK, Tokai, Japan, 2017.11.18-19, Y. Hayato, S. Kumano, T. Sato.
- Workshop on Origin and Composition of Nucleon Mass, KEK, Tsukuba, Japan, 2017.9.1, S. Kumano, K. Tanaka.
- Workshop on Hadron and Nuclear Physics in 2017, KEK, Tsukuba, Japan, 2017.1.7-10, A. Dote, K. Itakura, H. Kamano, S. Kumano, O. Morimatsu.
- Workshop on Hadron Tomography at J-PARC and KEKB, KEK, Tsukuba, Japan, 2017.1.6, S. Kumano, M. Takizawa, K. Tanaka.
- Workshop on Prospects of Electron-Ion-Collider Project, KEK, Tokai, Japan, 2016.8.3, Y. Goto, S. Kumano, I. Nakagawa, K. Tanaka, K. Tanida.
- Workshop on Hadron Tomography, YITP, Kyoto, Japan, 2016.7.31, Y. Hatta, S. Kumano, K. Tanaka.
- International Workshop on J-PARC Hadron Physics in 2016, Ibaraki Quantum Beam Research Center (IQBRC), Tokai, Japan, 2016.3.2-4, A. Dote, S. Kumano, T. Maruyama, K. Ozawa, S. Sawada, T. Takahashi, K. Tanida.

- Spinfest 2015 Workshop,
KEK, Tokai, Japan, 2015.7.22-24,
K. Tanida, S. Kumano, R. Seidl, K. Tanaka.
- Summer School on Spinfest 2015,
KEK, Tokai, Japan, 2015.7.6-21,25-31,
K. Tanida, S. Kumano, R. Seidl, K. Tanaka.
- J-PARC Hadron Salon on Ξ Hypernuclei,
KEK, Tokai, Japan, 2015.8.4,
A. Dote, S. Kumano, S. Sawada, T. Takahashi.
- J-PARC Hadron Salon on Kaonic Nuclei,
KEK, Tokai, Japan, 2015.5.18,
A. Dote, S. Kumano, S. Sawada, T. Takahashi.
- Workshop on Hadron Physics with High-Momentum Hadron Beams
at J-PARC in 2015,
KEK, Tsukuba, Japan, 2015.3.13-16,
S. Kumano, O. Morimatsu, K. Ozawa, S. Sawada.
- Workshop on J-PARC Proposal on High-Energy Hadron Physics,
KEK, Tsukuba, Japan, 2015.3.12,
S. Kumano, K. Tanaka.
- Workshop on Progress on J-PARC Hadron Physics in 2014,
KEK, Tokai, Japan, 2014.11.30-12.2,
A. Dote, K. Imai, S. Kumano, T. Maruyama, T. Takahashi, K. Tanida.
- Workshop on Hadron Structure and Spectroscopy,
Workshop before the APS-JPS meeting,
Waikoloa, Hawaii, USA, 2014.10.7,
B. Briscoe, V. Burkert, K. Imai, H. Kamano, S. Kumano, W. Melnitchouk.
- Workshop toward LoI for J-PARC on High-Energy Hadron Physics,
KEK, Tokai, Japan, 2014.8.10,
S. Kumano, K. Tanaka.
- Workshop on High-Energy QCD and Nucleon Structure,
KEK, Tsukuba, Japan, 2014.3.7-8,
Y. Goto, Y. Hatta, T. Iwata, Y. Koike, S. Kumano, S. Sawada, T. Shibata, K. Tanaka
- Workshop on High-Energy Hadron Physics at J-PARC,
KEK, Tokai, Japan, 2014.2.13,
S. Kumano, K. Tanaka.
- Workshop on J-PARC Hadron Physics in 2014,
KEK, Tokai, Japan, 2014.2.10-12,
A. Dote, T. Harada, S. Hirenzaki, S. Kumano, T. Maruyama, T. Takahashi, K. Tanaka.
- Workshop on J-PARC Theory Activities,
KEK, Tokai, Japan, 2013.5.11,
S. Kumano.
- Workshop on Hadron-Structure Physics at J-PARC and Related Topics,
KEK, Tokai, Japan, 2013.3.18,
S. Kumano.

- Workshop on Neutrino-Nucleus Reaction from MeV to GeV, KEK, Tokai, Japan, 2013.3.8-9, S. Kumano, T. Sato.
- J-PARC Hadron Salon on Neutron-Rich Nuclei, KEK, Tsukuba, Japan, 2013.3.1, A. Dote, S. Kumano, S. Sawada, T. Takahashi.
- Workshop on Future Prospects of Hadron Physics at J-PARC and Large Scale Computational Physics, IQBRC, Tokai, Japan, 2013.2.11-13, A. Dote, S. Hashimoto, T. Hatsuda, E. Hiyama, K. Imai, S. Kumano, T. Maruyama, M. Oka, T. Takahashi, H. Tamura.
- Workshop on Hadron Physics with High-Momentum Hadron Beams at J-PARC in 2013, KEK, Tsukuba, Japan, 2013.1.15-18, S. Kumano, O. Morimatsu, S. Sawada.
- Workshop on Neutrino-Nucleus Reaction from MeV to GeV, KEK, Tokai, Japan, 2012.12.2-4, S. Kumano, T. Sato.
- International Workshop on Fragmentation Functions and QCD 2012, Riken, Wako, Japan, 2012.11.9-11, R. Seidl, S. Kumano, T. Shibata.
- J-PARC Hadron Salon on Hypernuclear Physics and Neutron Stars, KEK, Tsukuba, Japan, 2012.7.4, A. Dote, S. Kumano, S. Sawada, T. Takahashi.
- Workshop on Neutrino-Nucleus Reaction from MeV to GeV, KEK, Tokai, Japan, 2012.3.19-21, S. Kumano, T. Sato.
- Workshop on Future Prospects of Hadron Physics at J-PARC and Large Scale Computational Physics, IQBRC, Tokai, Japan, 2012.2.9-11, A. Dote, O. Hashimoto, S. Hashimoto, T. Hatsuda, E. Hiyama, K. Imai, S. Kumano, T. Maruyama, M. Oka, T. Takahashi.
- Workshop on Neutrino-Nucleus Reaction from MeV to GeV, KEK, Tokai, Japan, 2011.12.17-18, S. Kumano, T. Sato.
- Workshop on Hadron-Nuclear Theory at J-PARC, KEK, Tokai, Japan, 2011.12.16-17, A. Dote, S. Kumano.
- 150th Friendship Anniversary Workshop Between Germany and Japan on Modern Trends in Quantum Chromodynamics, DESY, Zeuthen, Germany, 2011.10.3-5, J. Blümlein, S. Kumano, T. Riemann, T. Uematsu, W. Vogelsang.
- Workshop on J-PARC Hadron Salon on Pentaquark Physics, KEK, Tsukuba, Japan, 2011.9.29, A. Dote, S. Kumano, S. Sawada, T. Takahashi.

- Workshop on Hadron-Nuclear Physics at J-PARC, KEK, Tsukuba, Japan, 2011.6.10-11, A. Dote, T. Hatsuda, M. Hiyama, S. Kumano, M. Oka, H. Shoji.
- Workshop on Progress of Nucleon Structure Studies, KEK, Tsukuba, Japan, 2011.1.7-8, Y. Goto, H. Kawamura, S. Kumano, S. Sawada.
- J-PARC Hadron Salon on Hypernuclei and γ -Ray Spectroscopy, KEK, Tsukuba, Japan, 2010.11.18, A. Dote, S. Kumano, S. Sawada, T. Takahashi.
- J-PARC Hadron Salon on J-PARC Hadron Experiments and Neutron-Rich Nuclei, KEK, Tsukuba, Japan, 2010.8.11, A. Dote, S. Kumano, S. Sawada, T. Takahashi.
- J-PARC Hadron Salon on J-PARC Hadron Physics and Strangeness Nuclear Physics, KEK, Tsukuba, Japan, 2010.6.17, A. Dote, S. Kumano, S. Sawada, T. Takahashi.
- Workshop on High-Energy Hadron Physics with Hadron Beams, KEK, Tsukuba, Japan, 2010.1.6-8, K. Itakura, S. Kumano, Jen-Chieh Peng, S. Sawada.
- Workshop on Short-Range Correlations and Tensor Structure at J-PARC, KEK, Tsukuba, Japan, 2009.9.25, S. Kumano, H. Morita, S. Sawada
- Workshop on Nuclear and Hadron Physics, KEK, Tsukuba, Japan, 2009.8.11-13, H. Abuki, A. Dote, Y. Ikeda, K. Itakura, S. Kumano, O. Morimatsu, T. Myo, T. Takahashi, J. Utsuno, S. Yasui.
- Workshop on New Developments of Nucleon Structure Studies in 2009, KEK, Tsukuba, Japan, 2009.1.10, T. Kimura, S. Kumano.
- Workshop on High-Energy Hadron Physics at J-PARC: Hadrons in Nuclear Medium, KEK, Tsukuba, Japan, 2009.1.8, K. Itakura, S. Kumano, S. Sawada, S. Yasui.
- Workshop on J-PARC Physics: New Aspects of Hadron and Nuclear Physics, KEK, Tsukuba, Japan, 2008.8.7-9, A. Dote, S. Hirenzaki, A. Hosaka, K. Itakura, Y. Koike, S. Kumano, O. Morimatsu, A. Ohnishi.
- Workshop on High-Energy Hadron Physics at J-PARC: QCD Hard Scattering and Charm, KEK, Tsukuba, Japan, 2008.7.8, K. Itakura, S. Kumano, S. Sawada, S. Yasui.
- Workshop on Ultra-High Energy Cosmic Rays and Hadron Structure 2008, KEK, Tsukuba, Japan, 2008.4.25-26, M. Fukushima, Y. Ito, S. Kumano.

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