CURRICULUM VITAE
FOR
SHINGO TAKI

Full Name: Shingo TAKI
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Education

B.Sc., Department of Mathematical Sciences, Tokyo Denki University, 2003[1].
M.Sc., Graduate School of Mathematics, Nagoya University, 2006.
Ph.D., Graduate School of Mathematics, Nagoya University, 2009.
      Advisor: Prof. Shigeyuki Kondo.
      Thesis: On non-symplectic automorphisms of $K3$ surfaces.

Employment

- Teaching Assistant, Toyota Technological Institute, April, 2007–March, 2008.
- Research Assistant, Graduate School of Mathematics, Nagoya University, October, 2007–March, 2009.
- Instructor, Graduate School of Mathematics, Nagoya University, April, 2009–March, 2010.
- Guest Scientist, Korea Institute for Advanced Study, April, 2010–March, 2011.
- Assistant Professor, School of Information Environment, Tokyo Denki University, April, 2011–March, 2015.
- Lecturer, Department of Mathematics, Tokai University, April, 2015–March, 2018.
- Associate Professor, Department of Mathematics, Tokai University, April, 2018–

Membership of Academic Societies: Mathematical Society of Japan

Research Area: Algebraic Geometry

Papers and Preprints

(1) S. Taki, Classification of non-symplectic automorphisms of order 3 on $K3$ surfaces, Math. Nachr. **284** (2011), no. 1, 124–135.
(2) M. Artebani, A. Sarti and S. Taki, $K3$ surfaces with non-symplectic automorphisms of prime order, Math. Z. **268** (2011), no. 1–2, 507–533.
(3) S. Taki, Non-symplectic automorphisms of 3-power order on $K3$ surfaces, Proc. Japan Acad. Ser. A Math. Sci. **86** (2010), no. 8, 125–130.

Date: March 11, 2024.
[1]Early graduation

(4) H. Ohashi and S. Taki, $K3$ surfaces and log del Pezzo surfaces of index three, Manuscripta Math. **139** (2012), no. 3–4, 443–471.

(5) S. Taki, Classification of non-symplectic automorphisms on $K3$ surfaces which act trivially on the Néron-Severi lattice, J. Algebra **358** (2012), 16–26.

(6) S. Ma, H. Ohashi and S. Taki, Rationality of the moduli spaces of Eisenstein $K3$ surfaces, Trans. Amer. Math. Soc. **370** (2015), no. 12, 8643–8679.

(7) S. Taki, On Oguiso's $K3$ surface, J. Pure Appl. Algebra **218** (2014), no. 3, 391–394.

(8) D. Al Tabbaa, A. Sarti and S. Taki, Classification of order sixteen non-symplectic automorphisms on $K3$ surfaces, J. Korean Math. Soc. **53** (2016), no.6, 1237–1260.

(9) S. Taki, Log Enriques surfaces of index 7 and type A_{15}, preprint.

(10) S. Taki, Automorphisms of $K3$ surfaces and their applications, RIMS Kôkyûroku Bessatsu. **B78** (2020), 179–198.

(11) S. Taki, Singularities of quotient surfaces of $K3$ surfaces with an automorphism of maximum order, Math. Rep. **25(75)** (2023), no.3, 413–423.

(12) N. Shin-yashiki, S. Taki, Non-purely non-symplectic automorphisms of order 6 on $K3$ surfaces, Proc. Japan Acad. Ser. A Math. Sci. **97** (2021), no. 8, 61–66.

(13) S. Taki, Non-purely non-symplectic automorphisms of odd order on $K3$ surfaces, Proc. Japan Acad. Ser. A Math. Sci. **99** (2023), no. 7, 43–47.

(14) K. Miura, S. Taki, Quartic surfaces with a Galois point and Eisenstein $K3$ surfaces, preprint.

Talks

(1) Workshop on Algebraic Geometry, Nagoya University, February 2006 (Poster).

(2) Kinosaki Symposium on Algebraic Geometry, Kinosaki, Japan, October 2007 (Poster).

(3) Workshop "The 4th COE Conference for Young Researchers", Hokkaido University, February 2008.

(4) Workshop "4th Algebraic geometry for Hodge theory, degeneration and singularities and Topology", Tohoku Gakuin University, March 2008.

(5) Mathematical Society of Japan Spring meeting, Kinki University, March 2008.

(6) Algebraic geometry seminar, Tokyo Institute of Technology, August 2008.

(7) Mathematical Society of Japan Autumn meeting, Tokyo Institute of Technology, September 2008.

(8) Kinosaki Symposium on Algebraic Geometry, Kinosaki, Japan, October 2008 (Poster).

(9) Algebraic geometry seminar, Nagoya University, November 2008.

(10) Algebraic geometry seminar, Waseda University, November 2008.

(11) Seminar "GCOE Tea Time", Kyoto University, June 2009.

(12) Workshop on Special Varieties, Tambara Institute of Mathematical Sciences The University of Tokyo, July 2009.

(13) Workshop "Algebraic geometry and Related fields", Hokkaido University, September 2009.

(14) Kinosaki Symposium on Algebraic Geometry, Kinosaki, Japan, October 2009 (Poster).

(15) Workshop "Younger generations in Complex and Algebraic geometry", Kumamoto University, February 2010.

(16) Mathematical Society of Japan Spring meeting, Keio University, March 2010.
(17) Algebraic geometry seminar, Nagoya University, March 2010.
(18) Seminar, Korea Institute for Advanced Study, July 2010.
(19) 41th KNU-PNU-PMI Combinatorics Seminar, Pusan National University, August 2010.
(20) Workshop "Algebraic geometry and Related fields", Hokkaido University, August 2010.
(21) Kinosaki Symposium on Algebraic Geometry, Kinosaki, Japan, October 2010 (Poster).
(22) Algebraic geometry seminar, Nagoya University, December 2010.
(23) Algebraic geometry seminar, Kyoto University, February 2011.
(24) Geometry Journal Meeting, Korea Institute for Advanced Study, March 2011.
(25) The 5th Workshop on Special Varieties, Tambara Institute of Mathematical Sciences The University of Tokyo, September 2011.
(26) Gifu Algebraic geometry seminar, Gifu Shotoku Gakuen University, March 2012.
(27) Mathematical Society of Japan Spring meeting, Tokyo University of Science, March 2012.
(28) Workshop "Hodge theory and Algebraic geometry" Tokyo Denki University, August 2012
(29) The 6th Workshop on Special Varieties, Tambara Institute of Mathematical Sciences The University of Tokyo, September 2012.
(30) Kinosaki Symposium on Algebraic Geometry, Kinosaki, Japan, October 2012.
(31) Workshop on Algebraic Surfaces, Tokyo Metropolitan University, August 2013.
(32) Workshop on K3 surfaces and Enriques surfaces, Hokkaido University and Hokkaido University of Education, August 2013.
(33) Mathematical Society of Japan Autumn meeting, Ehime University, September 2013.
(34) Workshop "Geometry of Projective varieties and around 2013", Kochi University, November 2013.
(35) Algebraic geometry seminar, Nagoya University, November 2013.
(36) Algebra Seminar, Hiroshima University, December 2013.
(37) Colloquium, Tokyo University of Science, January 2014.
(38) Mathematical Sciences Seminar, Tokyo Denki University, May 2014.
(39) Tokai University, Colloquium, July 2014.
(40) The 2nd Workshop on K3 surfaces and Enriques surfaces, Asahikawa international hall, Hokkaido, Japan, August 2014.
(41) The 9th Workshop on Special Varieties, Tambara Institute of Mathematical Sciences The University of Tokyo, August 2015.
(42) The 3rd Morino-Miyako Symposium on Algebraic Geometry, Fukuoka University, November 2015.
(43) The 3rd Conference for Algebraic Geometry–Ube–, National Institute of Technology, Ube College, January 2016.
(44) Arithmetic and Algebraic Geometry 2016, The University of Tokyo, January 2016.
(45) Mini-Workshop on Algebraic Geometry, Saitama University, March 2016.
(46) Hakodate workshop on arithmetic geometry 2016, Hakodate Arena, May 2016.
(47) Colloquium, Tokyo Denki University, October 2017.

(48) Arithmetic and Geometry Seminar, Tokyo Institute of Technology, November 2017.
(49) $K3$ Surfaces and Related Topics, Nagoya University, December 2017.
(50) Mathematical structures of integrable systems and their applications, Research Institute for Mathematical Sciences, September 2018.
(51) Waseda Number Theory Seminar, Waseda University, June 2019.
(52) Degenerations, algebraic surfaces and related topics, Kobe University, December 2019.
(53) Yufuin Symposium on Algebraic Geometry, December 2019.
(54) The 30th Workshop on Algebraic Surfaces, Tokushima University, November 2023.
(55) The 21st Symposium on Algebraic curves, Nihon University, December 2023.

Other articles

(1) S. Taki, On $K3$ surfaces (in Japanese), Proceedings of Kinosaki seminar for Young Mathematicians, (2005), 331–333.
(2) H. Ohashi, T. Okada, S. Taki, H. Fukuyama, Y. Hoshi, Algebraic varieties from the viewpoint of derived categories (in Japanese), Proceedings of Study Session for Young Mathematicians at Biwako, (2007), 72 pages.
(3) S. Taki, Non-symplectic automorphisms on $K3$ surfaces (in Japanese), Proceedings of Kinosaki Symposium on Algebraic Geometry, Hokkaido University technical report series in mathematics **155** (2013), 1–12.
(4) S. Taki, Non-symplectic automorphisms of 2-power order on $K3$ surfaces, Proceedings of Geometry of Projective varieties and around 2013, (2014), 47–56.
(5) S. Taki, Quartic surfaces with a Galois point and Eisenstein $K3$ surfaces (in Japanese), Proceedings of The 21st Symposium on Algebraic curves, (2024), 23–33.

Editorial Board Memberships

- Tokyo Journal of Mathematics (Apr. 2017 – Mar. 2019).

Grants

(1) Apr. 2009 - Mar. 2010 Research expenses from Nagoya University Science Research Promotion Fund.
(2) Apr. 2013 - Mar. 2014 Research expenses from Research Institute for Science and Technology of Tokyo Denki University.
(3) Apr. 2014 - Mar. 2015 Research expenses from Research Institute for Science and Technology of Tokyo Denki University.
(4) Apr. 2015 - Mar. 2019 Grant-in-Aid for Young Scientists (B) from JSPS.
(5) Apr. 2019 - Mar. 2023 Grant-in-Aid for Scientific Research (C) from JSPS.
(6) Apr. 2023 - Mar. 2026 Grant-in-Aid for Scientific Research (C) from JSPS.

Activities Organized

(1) Workshop on K3 surfaces and Enriques surfaces, Hokkaido University and Hokkaido University of Education, August 2013.
(2) The 2nd Workshop on K3 surfaces and Enriques surfaces, Asahikawa international hall, Hokkaido, Japan, August 2014.

(3) The 3rd Workshop on K3 surfaces and Enriques surfaces, Hokkaido University of Education, August 2015.
(4) The 4th Workshop on K3 surfaces and Enriques surfaces, Hokkaido University of Education, October 2016.
(5) The 5th Workshop on K3 surfaces and Enriques surfaces, Hokkaido University of Education, August 2017.
(6) K3 surfaces and the related topics–The 17th International Conference, Graduate School of Mathematics, Nagoya University–, Nagoya University, December 2017.
(7) Special Seminar on K3 surfaces and Lattice theory, Hokkaido University of Education, September 2018.
(8) Kinosaki Symposium on Algebraic Geometry, Kinosaki, Japan, October 2019.
(9) K3, Enriques Surfaces and Related Topics, Nagoya University, March 2023.

Award
(1) Best Paper Award, Tokyo Denki University Science Research Promotion Fund, February 2014.