List of achievements

Shintarô Kuroki

1. Thesis and report

(1) Shintarô Kuroki: Classification of Transformation groups, Ph.D Thesis in Osaka City University, pp90 (2006).

(2) Shintarô Kuroki: Research on Toric Topology, Postdoctor Research Working Report in Fudan University, pp131 (2009).

2. Published papers and proceedings (refereed)

(3) Shintarô Kuroki: *On the construction of smooth $SL(m,\mathbb{H})\times SL(n,\mathbb{H})$-actions on $S^{4(m+n)-1}$*, Bull. Yamagata U., Yamagata, Japan (Natural Science) Vol. **15**, No. 3 Feb., 49–59 (2003).

(4) Shintarô Kuroki: *On $SL(3,\mathbb{R})$-action on 4-sphere*, J. of Fundamental and Applied Math. **11**, no. 5, 99–105 (2005)., translation in J. of Math. Sci. (N.Y.) **146**, no. 1, 5518–5522 (2007).

(5) Shintarô Kuroki: *Classification of compact transformation groups on complex quadrics with codimension one orbits*, Osaka J. Math. Vol. **46**, no. 1, 21–85 (2009).

(6) Shintarô Kuroki: *Characterization of homogeneous torus manifolds*, Osaka J. Math. Vol. **47**, no. 1, 285–299 (2010).

(7) Shintarô Kuroki: *Operations on three dimensional small covers*, Chin. Ann. Math. **31** B (3), 393–410 (2010).

(8) Shintarô Kuroki: *On projective bundles over small covers (a survey)*, GROUP ACTIONS AND HOMOGENEOUS SPACES. Proceedings of the International Conference Bratislava Topology Symposium "Group Actions and Homogeneous Spaces", September 7-11, 2009, Comenius University, Bratislava, Slovakia, 2009, 43–60 (2010).

(9) Shintarô Kuroki: *Classification of torus manifolds with codimension one extended actions*, Transformation Groups. Vol. **16**, Issue 2, 481–536 (2011).

(10) Suyoung Choi and Shintarô Kuroki: *Topological classification of torus manifolds which have codimension one extended actions*, Algebraic and Geometric Topology, **11**, 2655–2679 (2011).

(11) Shintarô Kuroki: *Equivariant cohomology distinguishes the geometric structures of toric hyperKähler manifolds*, Proceedings of the Steklov Institute of Mathematics, 2011, **275**, 251–283.

3. Preprints on arXiv

(12) Shintarô Kuroki, Mikiya Masuda and Li Yu: *Small cover, infra-solvmanifold and curvature*, arXiv:1111.2174, submitted.

(13) Shintarô Kuroki and DongYoup Suh: *Classification of complex projective towers up to dimension 8 and cohomological rigidity*, arXiv:1203.4403, submitted.

4. Preprints in preparation

(14) Shintarô Kuroki: *Classification of simply connected 8-dimensional torus manifolds with* $b_{odd} = b_2 = 0$, preprint.

(15) Shintarô Kuroki: *Hypertorus graphs and graph equivariant cohomologies*, preprint.

(16) Shintarô Kuroki and Zhi Lü: *On projective bundles over small covers*, preprint.

5. Other published articles (non-refereed)

(17) Shintarô Kuroki: *Classification of compact transformation groups on complex quadrics with codimension one orbits*, RIMS kokyuroku **1343**, 10–24 (2003).

(18) Shintarô Kuroki: *On the* $SL(3, \mathbb{R})$-*action on 4-sphere*, RIMS kokyuroku **1393**, 79–81 (2004).

(19) Shintarô Kuroki: *Classification of compact transformation groups on complex quadrics with codimension one orbits* (Japanese), the 2nd Kinosaki sinjin seminar proceedings 256–261 (2005).

(20) Shintarô Kuroki: *Hypertorus graph and its equivariant cohomology* (Japanese), RIMS kokyuroku **1517**, 120–135 (2006).

(21) Shintarô Kuroki: *Classification of compact group actions on torus manifolds which have codimension 0 or 1 orbits* (Japanese), Hokkaido university Technical report series in Math., Series #**117** The 3rd COE Conference for Young Researchers -CCYR3-, 177–184 (2007).

(22) Shintarô Kuroki: *On transformation groups which act on torus manifolds*, Proc. of 34th Symposium on Transformation Groups, 10–26 (2007).

(23) Shintarô Kuroki: *On transformation groups which act on torus manifolds* (Japanese), RIMS kokyuroku **1540**, 67–78 (2007).

(24) Shintarô Kuroki: *On 8-manifolds with* $SU(3)$-*actions*, RIMS kokyuroku **1569**, 81–93 (2007).

(25) Shintarô Kuroki: *Remarks on McGavran's paper and Nishimura's result*, Trends in Math. Vol. **10** No. 1, 77–79 (2008).

(26) Shintarô Kuroki: *Equivariant cohomology determines hypertoric manifold*, RIMS kokyuroku **1670**, 107–116 (2009).

(27) Shintarô Kuroki: *Introduction to GKM theory*, Trends in Math. Vol. **11** No. 2, 85–102 (2009).

(28) Shintarô Kuroki: *On group actions with codimension one orbits* (Japanese), Proceedings of 57th Topology Symposium, 13–22 (2010).

(29) Shintarô Kuroki: *GKM graphs induced by GKM manifolds with* $SU(\ell + 1)$-*symmetries*, Trends in Math. Vol. **12** No. 1, 103–113 (2010).

(30) Shintarô Kuroki: *A topological definition of hypertoric manifolds and its equivariant cohomology*, Trends in Math. Vol. **12** No. 1, 135–138 (2010).