

論文リスト

主要論文

- **Kodama, T.** & Arimoto, N., 1997, *A&A*, 320, 41–53,
“Origin of the Colour-Magnitude Relation of Elliptical Galaxies”,
新しい銀河スペクトル進化モデル構築の基礎論文。また銀河団早期型銀河の作る色等級関係の起源についても論じた。
- **Kodama, T.**, Arimoto, N., Barger, A. J., & Aragón-Salamamca, A., 1998, *A&A*, 334, 99–109,
“Evolution of the Colour-Magnitude Relation of Early-Type Galaxies in Distant Clusters”,
銀河団の早期型 (楕円) 銀河を構成する星への年齢制限を、色等級関係から論じたもの。
- Bower, R. G., **Kodama, T.**, & Terlevich, A., 1998, *MNRAS*, 299, 1193–1208,
“The Colour-Magnitude Relation as a Constraint on the Formation of Rich Cluster Galaxies”,
色等級関係の分散の小ささから銀河団銀河の星形成史と合体史に対して制限を与えたもの。
- **Kodama, T.**, Bell, E. F., & Bower, R. G., 1999, *MNRAS*, 302, 152–166,
“A Bayesian Classifier for Photometric Redshifts: Identification of High Redshift Clusters”,
測光学的赤方偏移のコードを、自身のスペクトル進化モデルを用いて作成した論文。さらにそれを用いて、遠方銀河団の同定を如何に効率良く行なえるかについても論じた。
- **Kodama, T.**, Bower, R. G., & Bell, E. F., 1999, *MNRAS*, 306, 561–566,
“The Colour-Magnitude Relation of Early-Type Galaxies in the Hubble Deep Field”,
フィールド環境にいる早期型銀河を構成する星への年齢制限を、色等級関係から論じたもの。
- **Kodama, T.**, & Bower, R. G., 2001, *MNRAS*, 321, 18–36,
“Reconstructing the History of Star Formation in Rich Cluster Cores”,
銀河団領域における星形成史を、銀河の測光分光的性質の時間進化から総合的に論じたもの。銀河団銀河進化に関するランドマーク的論文。
- **Kodama, T.**, Smail, I., Nakata, F., Okamura, S., Bower, R. G., 2001, *ApJ*, 562, L9–L13,
“The Transformation of Galaxies within the Large Scale Structure around a $z = 0.41$ Cluster”,
すばる望遠鏡による広視野観測から、銀河団の大規模構造とその中の銀河の環境依存性を論じた論文。PISCES プロジェクトの端緒となる論文。
- **Kodama, T.**, 31 authors, 2004, *MNRAS*, 350, 1005–1014,
“Down-Sizing in Galaxy Formation at $z \sim 1$ in the Subaru/XMM-Newton Deep Survey (SXDS)”,
すばる望遠鏡による広視野観測から、銀河進化の質量依存性 (ダウンサイジング) をはっきりと示した端緒的論文。
- **Kodama, T.**, 23 authors, 2005, *PASJ*, 57, 309–323,
“Panoramic Views of Cluster-Scale Assemblies Explored by Subaru Wide-Field Imaging”,
すばる望遠鏡で展開している、遠方銀河団の広視野観測プロジェクト (PISCES) の概略を紹介し、3つの典型的な銀河団サンプルについて大規模構造の発展を、理論シミュレーションと比較して示した論文。

- Tanaka, M., **Kodama, T.**, 6 authors, 2005, MNRAS, 362, 268–288,
“The build-up of the colour-magnitude relation as a function of environment”,
PISCES のハイライト的論文で、 $z = 0.8$ から $z = 0$ までの銀河の星形成活動の進化を、質量と環境の関数として定量的に示した論文。
- **Kodama, T.**, 7 authors, 2007, MNRAS, 377, 1717–1725,
“The first appearance of the red sequence of galaxies in proto-clusters at $2 \lesssim z \lesssim 3$ ”,
近赤外線観測による $2 < z < 3$ の原始銀河団の観測により、楕円銀河の祖先である重い銀河の形成現場を間接的に捕えた、先駆的な論文。
- Koyama, Y., **Kodama, T.**, Shimasaku, K., Hayashi, M., Okamura, S., Tanaka, I., Tokoku, C.,
2010, MNRAS, 403, 1611–1624,
“Panoramic $H\alpha$ and mid-infrared mapping of star formation in a $z=0.8$ cluster”,
すばるのナローバンドを用いた $H\alpha$ 輝線マッピング観測とあかりの広視野中間赤外線データを用いて、銀河団の外側の銀河群やインフォール領域において星形成活動が活発になっていることを突き止めた論文。現在進行中の MAHALO-Subaru プロジェクトの先駆的な論文。

査読論文：

1. Tadaki, K., **Kodama, T.**, Ota, K., Hayashi, M., Koyama, Y., Papovich, C., Brodwin, M., Tanaka, M., Iye, M., 2012, MNRAS, in press,
“A large-scale structure traced by [O II] emitters hosting a distant cluster at $z=1.62$ ”
2. Raichoor, A., 10 authors, **Kodama, T.**, 6 authors, 2012, ApJ, 745, 130,
“Early-type Galaxies at $z \sim 1.3$. IV. Scaling Relations in Different Environments”
3. Matsuda, Y., 13 authors, **Kodama, T.**, 3 authors, 2011, MNRAS, 416, 2041–2059,
“An H α search for overdense regions at $z=2.23$ ”
4. Hayashi, M., **Kodama, T.**, Koyama, Y., Tadaki, K., Tanaka, I., 2011, MNRAS, 415, 2670–2687,
“Properties of star-forming galaxies in a cluster and its surrounding structure at $z=1.46$ ”
5. Koyama, Y., **Kodama, T.**, Nakata, F., Shimasaku, K., Okamura, S., 2011, ApJ, 734, 66
“Red Star-forming Galaxies and Their Environment at $z=0.4$ Revealed by Panoramic H α Imaging”
6. Rettura, A., 17 authors, **Kodama, T.**, 3 authors, 2011, ApJ, 732, 94
“Early-type Galaxies at $z \sim 1.3$. III. On the Dependence of Formation Epochs and Star Formation Histories on Stellar Mass and Environment”
7. Raichoor, A., 13 authors, **Kodama, T.**, 2 authors, 2011, ApJ, 732,
“Early-type Galaxies at $z \sim 1.3$. II. Masses and Ages of Early-type Galaxies in Different Environments and Their Dependence on Stellar Population Model Assumptions”
8. Tadaki, K., **Kodama, T.**, Koyama, Y., Hayashi, M., Tanaka, I., Tokoku, C., 2011, PASJ, 63, 437–446,
“Cosmic Star-Formation Activity at $z=2.2$ Probed by H α Emission-Line Galaxies”
9. Tanaka, I., 3 authors, **Kodama, T.**, 10 authors, 2011, PASJ, 63, 415–435,
“Discovery of an Excess of H α Emitters around 4C 23.56 at $z=2.4$ ”
10. Hatch, N. A., 6 authors, **Kodama, T.**, 5 authors, 2011, MNRAS, 410, 1537–1549,
“Galaxy protocluster candidates around $z \sim 2.4$ radio galaxies”
11. Ouchi, M., 10 authors, **Kodama, T.**, 3 authors, 2010, ApJ, 723, 869,
“Statistics of 207 Ly α Emitters at a Redshift Near 7: Constraints on Reionization and Galaxy Formation Models”
12. Galametz, A., 4 authors, **Kodama, T.**, 7 authors, 2010, A&A, 522, A58,
“A Galaxy populations study of a radio-selected protocluster at $z \sim 3.1$ ”
13. Kuiper, E., 8 authors, **Kodama, T.**, 5 authors, 2010, MNRAS, 405, 969–986,
“A Galaxy populations study of a radio-selected protocluster at $z \sim 3.1$ ”
14. Koyama, Y., **Kodama, T.**, Shimasaku, K., Hayashi, M., Okamura, S., Tanaka, I., Tokoku, C., 2010, MNRAS, 403, 1611–1624,
“Panoramic H α and mid-infrared mapping of star formation in a $z=0.8$ cluster”

15. Goto, T., 13 authors, **Kodama, T.**, 8 authors, 2010, A&A, 514, A7,
“Environmental dependence of 8um luminosity functions of galaxies at $z \sim 0.8$: Comparison between RXJ1716.4+6708 and the AKARI NEP deep field”
16. Wardlow, J. L., 13 authors, **Kodama, T.**, 5 authors, 2010, MNRAS, 401, 2299–2317,
“An AzTEC 1.1-mm survey for ULIRGs in the field of the Galaxy Cluster MS0451.6-0305”
17. Hayashi, M., **Kodama, T.**, Koyama, Y., Tanaka, I., Shimasaku, K., Okamura, S., 2010, MNRAS, 402, 1980–1990,
“High star formation activity in the central region of a distant cluster at $z=1.46$ ”
18. Doherty, M., Tanaka, M., De Breuck, C., Ly, C., **Kodama, T.**, 7 authors, 2010, A&A, 509, A83,
“Optical and near-IR spectroscopy of candidate red galaxies in two $z \sim 2.5$ proto-clusters”
19. Matsuda, Y., 5 authors, **Kodama, T.**, 11 authors, 2009, MNRAS, 400, L66–L70,
“Ly α blobs like company: the discovery of a candidate 100kpc Ly α blob near to a radio galaxy with a giant Ly α halo B3J2330+3927 at $z=3.1$ ”
20. Tanaka, M., Lidman, C., Bower, R. G., Demarco, R., Finoguenov, A., **Kodama, T.**, Nakata, F., Rosati, P., 2009, A&A, 507, 671–682,
“Star formation activities of galaxies in the large-scale structures at $z=1.2$ ”
21. Tanaka, M., Finoguenov, A., **Kodama, T.**, Koyama, Y., Maughan, B., Nakata, F., 2009, A&A, 505, L9–L12,
“The spectroscopically confirmed huge cosmic structure at $z=0.55$ ”
22. Matsuura, M., 7 authors, **Kodama, T.**, 4 authors, 2009, ApJ, 396, 918–934,
“The global gas and dust budget of the Large Magellanic Cloud: AGB stars and supernovae, and the impact on the ISM evolution”
23. Bundy, K., Fukugita, M., Ellis, R. S., Targett, T. A., Belli, S., **Kodama, T.**, 2009, ApJ, 697, 1369–1383,
“The Greater Impact of Mergers on the Growth of Massive Galaxies: Implications for Mass Assembly and Evolution since $z \sim 1$ ”
24. Ouchi, M., 20 authors, **Kodama, T.**, 5 authors, 2009, ApJ, 696, 1164–1175,
“Discovery of a Giant Ly α Emitter Near the Reionization Epoch”
25. Koyama, Y., **Kodama, T.**, 9 authors, 2008, MNRAS, 391, 1758–1770,
“Mapping dusty star formation in and around a cluster at $z=0.81$ by wide-field imaging with AKARI”
26. Tanaka, M., Finoguenov, A., **Kodama, T.**, 6 authors, 2008, A&A, 489, 571–581,
“The environmental dependence of properties of galaxies around the RDCSJ0910+54 cluster at $z=1.1$ ”
27. Ouchi, M., 8 authors, **Kodama, T.**, 6 authors, 2008, ApJS, 176, 301–330,
“The Subaru/XMM-Newton Deep Survey (SXDS). IV. Evolution of Ly α Emitters from $z=3.1$ to 5.7 in the 1 deg² Field: Luminosity Functions and AGN”

28. Furusawa, H., 22 authors, **Kodama, T.**, 12 authors, 2008, ApJS, 176, 1–18,
“The Subaru/XMM-Newton Deep Survey (SXDS). II. Optical Imaging and Photometric Catalogs”
29. Koyama, Y., **Kodama, T.**, 3 authors, 2007, MNRAS, 382, 1719–1728,
“Dependence of the Build-up of the Colour-Magnitude Relation on Cluster Richness at $z \sim 0.8$ ”
30. Tanaka, M., Hoshi, T., **Kodama, T.**, Kashikawa, N., 2007, MNRAS, 379, 1546–1556,
“A huge filamentary structure at $z = 0.55$ and star formation histories of galaxies at $z < 1$ ”
31. Ly, C., 6 authors, **Kodama, T.**, 2 authors, 2007, ApJ, 657, 738–759,
“The Luminosity Function and Star Formation Rate between Redshifts of 0.07 and 1.47 for Narrowband Emitters in the Subaru Deep Field”
32. Yoshida, M., 16 authors, **Kodama, T.**, 20 authors, 2006, ApJ, 653, 988–1003,
“Luminosity Functions of Lyman Break Galaxies at $z \sim 4$ and $z \sim 5$ in the Subaru Deep Field”
33. Geach, J. E., 7 authors, **Kodama, T.**, 2006, ApJ, 649, 661–672,
“A Panoramic Mid-Infrared Survey of Two Distant Clusters”
34. Kajisawa, M., **Kodama, T.**, 3 authors, 2006, MNRAS, 371, 577–582,
“Protoclusters with evolved populations around radio galaxies at $z \sim 2.5$ ”
35. Intema, H. T., Venemans, B. P., Kurk, J. D., Ouchi, M., **Kodama, T.**, 3 authors, 2006, A&A, 456, 433–437,
“Large-scale structure of Lyman break galaxies around a radio galaxy protocluster at $z \sim 4$ ”
36. Matsuhara, H., 13 authors, **Kodama, T.**, 14 authors, 2006, PASJ, 58, 673–694,
“Deep Extragalactic Surveys around the Ecliptic Poles with AKARI (ASTRO-F)”
37. Hamana, T., Yamada, T., Ouchi, M., Iwata, I., **Kodama, T.**, 2006, MNRAS, 369, 1929–1938,
“Masses of high- z galaxy hosting haloes from angular clustering and their evolution in the cold dark matter model”
38. Tanaka, M., **Kodama, T.**, Arimoto, N., Tanaka, I., 2006, MNRAS, 365, 1392–1404,
“Spectroscopically confirmed large-scale structures associated to a $z=0.83$ cluster”
39. Kashikawa, N., 19 authors, **Kodama, T.**, 19 authors, 2006, ApJ, 637, 631–647,
“Clustering of Lyman Break Galaxies at $z = 4$ and 5 in the Subaru Deep Field: Luminosity Dependence of the Correlation Function Slope”
40. Umetsu, K., Tanaka, M., **Kodama, T.**, 4 authors, 2005, PASJ, 57, 877–880,
“Discovery of a Strongly Lensed Galaxy at $z = 3.9$ behind a $z = 0.83$ Galaxy Cluster”
41. Yamada, T., **Kodama, T.**, 11 authors, 2005, ApJ, 634, 861–878,
“The Number Density of Old Passively Evolving Galaxies at $z = 1$ in the Subaru/XMM-Newton Deep Survey Field”
42. Tanaka, M., **Kodama, T.**, 6 authors, 2005, MNRAS, 362, 268–288,
“The build-up of the colour-magnitude relation as a function of environment”

43. **Kodama, T.**, 23 authors, 2005, PASJ, 57, 309–323,
“Panoramic Views of Cluster-Scale Assemblies Explored by Subaru Wide-Field Imaging”
44. Nakata, F., **Kodama, T.**, 12 authors, 2005, MNRAS, 357, 1357–1362,
“Discovery of a Large Scale Structure towards the Lynx Supercluster at $z \sim 1.27$ ”
45. Taniguchi, Y., 18 authors, **Kodama, T.**, 20 authors, 2005, PASJ, 57, 165–182,
“The SUBARU Deep Field Project: Lyman α Emitters at a Redshift of 6.6”
46. Ouchi, M., 7 authors, **Kodama, T.**, 8 authors, 2005, ApJ, 620, L1–L4,
“The Discovery of Primeval Large-Scale Structures with Forming Clusters at Redshift 6”
47. Kashikawa, N., 15 authors, **Kodama, T.**, 21 authors, 2004, PASJ, 56, 1011–1023,
“The Subaru Deep Field: The Optical Imaging Data”
48. **Kodama, T.**, Balogh, M. L., Smail, I., Bower, R. G., Nakata, F., 2004, MNRAS, 354, 1103–1119,
“A panoramic H α imaging survey of the $z = 0.4$ cluster Cl0024.0+1652 with Subaru”
49. Nagao, T., 16 authors, **Kodama, T.**, 22 authors, 2004, ApJ, 613, L9–L12
“A Strong Ly α Emitter at $z=6.33$ in the Subaru Deep Field Selected as an i' -Dropout”
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“Down-Sizing in Galaxy Formation at $z \sim 1$ in the Subaru/XMM-Newton Deep Survey (SXDS)”
51. Bundy, K., Fukugita, M., Ellis, R. S., **Kodama, T.**, Conselice, C. J., 2004, ApJ, 601, L123–L126
“A Slow Merger History of Field Galaxies Since $z \sim 1$ ”
52. Miyazaki, M., Shimasaku, K., **Kodama, T.**, +23 authors, 2003, PASJ, 55, 1079–1103,
“Evolution of Elliptical Galaxies at $z \gtrsim 1$ Revealed from a Large, Multicolor Sample of Extremely Red Objects”
53. **Kodama, T.**, Bower, R. G., 2003, MNRAS, 346, 1–12,
“The K_s -band Luminosity and Stellar Mass Functions of Galaxies in $z \sim 1$ Clusters”
54. Iye, S., 5 authors, **Kodama, T.**, 7 authors, 2003, ApJ, 590, 770–777,
“ERO R1 in the Field of CL 0939+4713: Evidence for an S0-like Galaxy at $z \sim 1.5$ ”
55. Kodaira, K., 17 authors, **Kodama, T.**, 26 authors, 2003, PASJ, 55, L17–L21,
“The Discovery of Two Lyman α Emitters beyond Redshift 6 in the Subaru Deep Field”
56. Yamada, T., 4 authors, **Kodama, T.**, 2 authors, 2002, ApJ, 577, L89–L92,
“Witnessing the Hierarchical Assembly of the Brightest Cluster Galaxy in a Cluster at $z=1.26$ ”
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“The Las Campanas/AAT Rich Cluster Survey: II. The Environmental Dependence of Galaxy Colours in Clusters at $z \sim 0.1$ ”
58. Nakata F., Kajisawa, M., Yamada, T., **Kodama, T.**, Shimasaku, K., Tanaka, I., 2001, PASJ, 53, 1139–1152,
“Galaxy Population in a Cluster of Galaxies around the Radio Galaxy 3C324 at $z = 1.2$ ”

59. Yamada, T., 5 authors, **Kodama, T.**, 11 authors, 2001, PASJ, 53, 1119–1131,
“Subaru Deep Near Infrared Imaging of the Field of the Possible Proto-Cluster Near the Radio Galaxy 53W002 at $z = 2.4$ ”
60. **Kodama, T.**, Smail, I., Nakata, F., Okamura, S., Bower, R. G., 2001, ApJ, 562, L9–L13,
“The Transformation of Galaxies within the Large Scale Structure around a $z = 0.41$ Cluster”
61. **Kodama, T.**, & Smail, I., 2001, MNRAS, 326, 637–642,
“Testing the Hypothesis of the Morphological Transformation from Field Spiral to Cluster S0”
62. Smail, I., Kuntschner, H., **Kodama, T.**, Smith, G. P., Packham, C., Fruchter, A. S., Hook, R. N., 2001, MNRAS, 323, 839–849,
“A Photometric Study of the Ages and Metallicities of Early-type Galaxies in A2218”
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“The Colour-Magnitude Relation of Early-Type Galaxies in the Hubble Deep Field North”
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“The Colour-Magnitude Relation and the Formation of Early-Type Galaxies”
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“Reconstructing the History of Star Formation in Rich Cluster Cores”
66. **Kodama, T.**, Bower, R. G., 2001, Astrophysics and Space Science, 277, 597–597
“Global Star Formtion History in Rich Cluster Cores”
67. **Kodama, T.**, & Matsushita, K., 2000, ApJ, 539, 149–154,
“Homogeneity of Stellar Populations in Early-Type Galaxies with Different X-ray Properties”
68. Tamura, N., Kobayashi, C., Arimoto, N., **Kodama, T.**, Ohta, K., 2000, AJ, 119, 2134–2145,
“Origin of Color Gradients in Elliptical Galaxies in the Hubble Deep Field”
69. Tanaka, I., Yamada, T., Aragón-Salamanca, A., **Kodama, T.**, Miyaji, T., Ohta, K., & Arimoto, N., 2000, ApJ, 528, 123–138,
“A Rich Cluster of Galaxies Near the Quasar B2 1335+28 at $z = 1.1$: Colour Distribution and Star-Formation Properties”
70. **Kodama, T.**, Bower, R. G., & Bell, E. F., 1999a, MNRAS, 306, 561–566,
“The Colour-Magnitude Relation of Early-Type Galaxies in the Hubble Deep Field”
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“Formation Epoch of Field Early-Type Galaxies”
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“A Bayesian Classifier for Photometric Redshifts: Identification of High Redshift Clusters”
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“Secondary Episode of Star Formation in Elliptical Galaxies”
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“The Colour-Magnitude Relation as a Constraint on the Formation of Rich Cluster Galaxies”

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“Clustering of Red Galaxies near the Radio-loud Quasar 1335.8+2834 at $z = 1.1$ ”
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“Origin of the Colour-Magnitude Relation of Elliptical Galaxies”
79. van Driel, W., 13 authors, **Kodama, T.**, 4 authors, 1995, AJ, 109, 942–959,
“Polar Ring Spiral Galaxy NGC 660”