

## 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., 1999a, *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。
- Tadaki, K., **Kodama, T.**, Tanaka, I., Hayashi, M., Koyama, Y., Shimakawa, R., 2014, ApJ, 780, 77,  
“The Nature of H $\alpha$  selected galaxies at  $z > 2$ . II. Clumpy galaxies and compact star-forming galaxies” 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、ハッブル宇宙望遠鏡の高解像度画像とを組み合わせ、銀河形成最盛期 ( $z=2-2.5$ ) の時代の銀河の性質や内部構造を議論した論文で、MAHALO-Subaru プロジェクトのハイライト論文の一つ。
- Shimakawa, R., **Kodama, T.**, Tadaki, K., Hayashi, M., Koyama, Y., Tanaka, I., 2015, MNRAS, 448, 666–680,  
“An early phase of environmental effects on galaxy properties unveiled by near-infrared spectroscopy of protocluster galaxies at  $z > 2$ ” MAHALO-Subaru プロジェクトの最も遠い銀河団サンプル 2 つについて近赤外線分光観測を行って、銀河形成最盛期にあたる原始銀河団の重元素量や電離状態について環境依存性を議論した論文。MAHALO-Subaru プロジェクトのハイライト論文の一つ。
- Suzuki, L. T., **Kodama, T.**, Tadaki, K., Hayashi, M., Koyama, Y., Tanaka, I., Minowa, Y., Shimakawa, R., Yamamoto, M., 2015, ApJ, 806, 208,  
“Galaxy formation at  $z > 3$  revealed by narrow-band selected [OIII] Emission Line Galaxies”
- Tadaki, K., Genzel, R., **Kodama, T.**, 24 authors, 2017, ApJ, 834, 135,  
“Bulge-forming galaxies with an extended rotating disk at  $z \sim 2$ ”
- Hayashi, M., **Kodama, T.**, et al., ApJ, 841, L21,  
“Evolutionary Phases of Gas-rich Galaxies in a Galaxy Cluster at  $z = 1.46$ ”
- Shimakawa, R., **Kodama, T.**, et al., 2017, MNRAS, 468, L21,  
“Direct evidence for Ly-alpha depletion in the protocluster core”
- Shimakawa, R., **Kodama, T.**, et al., 2018, MNRAS, 473, 1977,  
“MAHALO Deep Cluster Survey I. Accelerated and enhanced galaxy formation in the densest regions of a protocluster at  $z=2.5$ ”

- Tadaki, K., **Kodama, T.**, 13 authors, 2019, PASJ, 71, 40,  
"Environmental impacts on molecular gas in protocluster galaxies at  $z \sim 2$ "
- Suzuki, T. L., Minowa, Y., Koyama, Y., **Kodama, T.**, 4 authors, 2019, PASJ, 71, 69,  
"Extended star-forming regions within galaxies in a dense proto-cluster core at  $z=2.53$ "
- Asano, T., **Kodama, T.**, 18 authors, 2020, ApJ, 899, 64,  
"Environmental Impact on Star-forming Galaxies in a  $z \sim 0.9$  Cluster during the Course of Galaxy Accretion"
- Suzuki, T. L., Onodera, M., **Kodama, T.**, 8 authors, 2021, ApJ, 908, 15,  
"Dust, Gas, and Metal Content in Star-forming Galaxies at  $z \sim 3.3$  Revealed with ALMA and Near-IR Spectroscopy"
- Koyama, Y., 2 authors, **Kodama, T.**, 5 authors, 2021, MNRAS, 503, L1,  
"A Planck-selected dusty proto-cluster at  $z=2.16$  associated with a strong overdensity of massive H  $\alpha$ -emitting galaxies"

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- **Kodama, T.** & Arimoto, N., 1997, A&A, 320, 41–53, “Origin of the Colour-Magnitude Relation of Elliptical Galaxies”
- Yamada, T., Tanaka, I., Aragón-Salamanca, A., **Kodama, T.**, Ohta, K., & Arimoto, N., 1997, ApJ, 487, L125–128, “Clustering of Red Galaxies near the Radio-loud Quasar 1335.8+2834 at  $z = 1.1$ ”
- **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”
- Gladders, M. D., Lopez-Cruz, O., Yee, H. K. C. & **Kodama, T.**, 1998, ApJ, 501, 571–577, “The Slope of the Cluster Elliptical Red Sequence: A Probe of Cluster Evolution”
- 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”
- **Kodama, T.**, & Arimoto, N., 1998, MNRAS, 300, 193–199, “Secondary Episode of Star Formation in Elliptical Galaxies”
- **Kodama, T.**, Bell, E. F., & Bower, R. G., 1999, MNRAS, 302, 152–166, “A Bayesian Classifier for Photometric Redshifts: Identification of High Redshift Clusters”
- **Kodama, T.**, Bower, R. G., & Bell, E. F., 1999b, Astrophysics and Space Science, 265, 487–488, “Formation Epoch of Field Early-Type Galaxies”
- **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”
- 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”
- 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”
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- **Kodama, T.**, Bower, R. G., 2001, Astrophysics and Space Science, 277, 597–597, “Global Star Formtion History in Rich Cluster Cores”
- **Kodama, T.**, & Bower, R. G., 2001, MNRAS, 321, 18–36, “Reconstructing the History of Star Formation in Rich Cluster Cores”

- **Kodama, T.**, 2001, *Astrophysics and Space Science*, 276, 877–884,  
“The Colour-Magnitude Relation and the Formation of Early-Type Galaxies”
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“The Colour-Magnitude Relation of Early-Type Galaxies in the Hubble Deep Field North”
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- **Kodama, T.**, & Smail, I., 2001, *MNRAS*, 326, 637–642,  
“Testing the Hypothesis of the Morphological Transformation from Field Spiral to Cluster S0”
- **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”
- 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  $z = 2.4$ ”
- 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  $z = 1.2$ ”
- Pimblet, K. A., Smail, I., **Kodama, T.**, Edge, A. C., Couch, W. J., Zabludoff, A. I., & O’Hely, E., 2002, *MNRAS*, 331, 333–350,  
“The Las Campanas/AAT Rich Cluster Survey: II. The Environmental Dependence of Galaxy Colours in Clusters at  $z \sim 0.1$ ”
- Yamada, T., 4 authors, **Kodama, T.**, 2 authors, 2002, *ApJ*, 577, L89–L92,  
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- Kawabata, K. S., 29 authors, **Kodama, T.**, 2002, *ApJ*, 580, L39–L42,  
“Optical Spectropolarimetry of SN 2002ap: A High-Velocity Asymmetric Explosion”
- Kodaira, K., 17 authors, **Kodama, T.**, 26 authors, 2003, *PASJ*, 55, L17–L21,  
“The Discovery of Two Lyman $\alpha$  Emitters beyond Redshift 6 in the Subaru Deep Field”
- 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  $z \sim 1.5$ ”
- **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”
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“A Slow Merger History of Field Galaxies Since  $z \sim 1$ ”

- **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)”
- Nagao, T., 16 authors, **Kodama, T.**, 22 authors, 2004, ApJ, 613, L9–L12  
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- Taniguchi, Y., 18 authors, **Kodama, T.**, 20 authors, 2005, PASJ, 57, 165–182,  
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- Nakata, F., **Kodama, T.**, 12 authors, 2005, MNRAS, 357, 1357–1362,  
“Discovery of a Large Scale Structure towards the Lynx Supercluster at  $z \sim 1.27$ ”
- **Kodama, T.**, 23 authors, 2005, PASJ, 57, 309–323,  
“Panoramic Views of Cluster-Scale Assemblies Explored by Subaru Wide-Field Imaging”
- Tanaka, M., **Kodama, T.**, 6 authors, 2005, MNRAS, 362, 268–288,  
“The build-up of the colour-magnitude relation as a function of environment”
- 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”
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- Tanaka, M., **Kodama, T.**, Arimoto, N., Tanaka, I., 2006, MNRAS, 365, 1392–1404,  
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- Kajisawa, M., **Kodama, T.**, 3 authors, 2006, MNRAS, 371, 577–582,  
“Protoclusters with evolved populations around radio galaxies at  $z \sim 2.5$ ”
- Geach, J. E., 7 authors, **Kodama, T.**, 2006, ApJ, 649, 661–672,  
“A Panoramic Mid-Infrared Survey of Two Distant Clusters”
- Yoshida, M., 16 authors, **Kodama, T.**, 20 authors, 2006, ApJ, 653, 988–1003,  
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- 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  $z \sim 0.8$ ”
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