IOPscience

THE ASTRONOMICAL JOURNAL

A New Nonparametric Approach to Galaxy Morphological Classification

Jennifer M. Lotz[1], Joel Primack[1], and Piero Madau[2]

The Astronomical Journal, Volume 128, Number 1

+ Article information

Author e-mails

jlotz@scipp.ucsc.edu

joel@scipp.ucsc.edu

pmadau@ucolick.org

Author affiliations

[1] Santa Cruz Institute of Particle Physics, University of California, Santa Cruz, 1156 High Street, Santa Cruz, CA 95064

[2] Department of Astronomy and Astrophysics, University of California, Santa Cruz, 1156 High Street, Santa Cruz, CA 95064

Dates

Received 2003 November 14
Accepted 2004 April 12

Citation

Jennifer M. Lotz *et al* 2004 *AJ* **128** 163

DOI

https://doi.org/10.1086/421849

Keywords

galaxies: fundamental parameters; galaxies: high-redshift; galaxies: peculiar; galaxies: structure

Abstract

We present two new nonparametric methods for quantifying galaxy morphology: the relative distribution of the galaxy pixel flux values (the Gini coefficient or G) and the second-order moment of the brightest 20% of the galaxy's flux (M_{20}). We test the robustness of G and M_{20} to decreasing signal-to-noise ratio (S/N) and spatial resolution and find that both measures are reliable to within 10% for images with average S/N per pixel greater than 2 and resolutions better than 1000 and 500 pc, respectively. We have measured G and M_{20}, as well as concentration (C), asymmetry (A), and clumpiness (S) in the rest-frame near-ultraviolet/optical

wavelengths for 148 bright local "normal" Hubble-type galaxies (E–Sd) galaxies, 22 dwarf irregulars, and 73 $0.05 < z < 0.25$ ultraluminous infrared galaxies (ULIRGs). We find that most local galaxies follow a tight sequence in G-M_{20}-C, where early types have high G and C and low M_{20} and late-type spirals have lower G and C and higher M_{20}. The majority of ULIRGs lie above the normal galaxy G-M_{20} sequence because of their high G and M_{20} values. Their high Gini coefficients arise from very bright nuclei, while the high second-order moments are produced by multiple nuclei and bright tidal tails. All of these features are signatures of recent and on-going mergers and interactions. We also find that in combination with A and S, G is more effective than C at distinguishing ULIRGs from the "normal" Hubble types. Finally, we measure the morphologies of $1.7 < z < 3.8$ galaxies from *HST* NICMOS observations of the Hubble Deep Field North. We find that many of the $z \sim 2$ galaxies possess G and A higher than expected from degraded images of local elliptical and spiral galaxies and have morphologies more like low-redshift ULIRGs.

References

↑

Abazajian, K., et al. 2003, AJ, ***126****, 2081*

IOPscience ADS

↑

Abraham, R., van den Bergh, S., & Nair, P. 2003, ApJ, ***588****, 218*

IOPscience ADS

↑

Abraham, R. G., Tanvir, N. R., Santiago, B. X., Ellis, R. S., Glazebrook, K., & van den

Bergh, S. 1996, MNRAS, ***279****, L47*

Crossref ADS

↑

Abraham, R. G., Valdes, F., Yee, H.K.C., & van den Bergh, S. 1994, ApJ, ***432****, 75*

Crossref ADS

↑

Abraham, R. G., & van den Bergh, S. 2001, Science, ***293****, 1273*

Crossref ADS PubMed

↑

Balcells, M., Graham, A., Dominguez-Palmero, L., & Peletier, R. 2003, ApJ, ***582****, L79*

IOPscience ADS

↑

Bershady, M., Jangren, A., & Conselice, C. 2000, AJ, ***119****, 2645*

IOPscience ADS

↑

Blanton, M., et al. 2003a, ApJ, ***594****, 186*

IOPscience ADS

↑

Blanton, M., et al. 2003b, ApJ, ***592****, 819*

IOPscience ADS

↑

Borne, K. D., Bushouse, H., Lucas, R. A., & Colina, L. 2000, ApJ, ***529****, L77*

IOPscience ADS

↑

Brinchmann, J., et al. 1998, ApJ, ***499****, 112*

IOPscience ADS

↑

Budavari, T., Szalay, A., Connolly, A., Csabai, I., & Dickinson, M. 2000, AJ, ***120****, 1588*

IOPscience ADS

↑

Carollo, M. 1999, ApJ, ***523****, 566*

IOPscience ADS

↑

Conselice, C. 2003, ApJS, ***147****, 1*

IOPscience ADS
↑
Conselice, C., Bershady, M., Dickinson, M., & Papovich, C. 2003, ApJ, **126**, L1183
IOPscience
↑
Conselice, C., Bershady, M., & Jangren, A. 2000, ApJ, **529**, 886
IOPscience ADS
↑
Cox, T. J., et al. 2004, in preparation
↑
Cui, J., Xia, X.-Y., Deng, Z.-G., Mao, G., & Zou, Z.-L. 2001, AJ, **122**, 63
IOPscience ADS
↑
Dickinson, M. 1999, in After the Dark Ages: When Galaxies were Young (The Universe at 2 < z < 5), ed. S. Holt & E. Smith (College Park, MD: AIP Press), 122
Crossref
↑
Driver, S. P., Windhorst, R. A., & Griffiths, R. 1995, ApJ, **453**, 48
Crossref ADS
↑
Drozdovsky, I. O., & Karachentsev, I. D. 2000, A&AS, **142**, 425
Crossref ADS
↑
Eastman, R. G., Schmidt, B. P., & Kirshner, R. 1996, ApJ, **466**, 911
Crossref ADS
↑
Fasano, G., & Franceschini, A. 1987, MNRAS, **225**, 155
Crossref ADS
↑
Ferguson, H. C., et al. 2004, ApJ, **600**, L107
IOPscience ADS
↑
Freedman, W. L., et al. 2001, ApJ, **553**, 47
IOPscience ADS
↑
Frei, Z., Guhathakurta, P., Gunn, J., & Tyson, J. A. 1996, AJ, **111**, 174

Crossref ADS
↑
Garcia, A. M., Fournier, A., di Nella, H., & Paturel, G. 1996, A&A, **310**, 412
ADS
↑
Gavazzi, G., Boselli, A., Scodeggio, M., Pierini, D., & Belsole, E. 1999, MNRAS, **304**, 595
Crossref ADS
↑
Giavalisco, M., Steidel, C. C., & Macchetto, F. D. 1996, ApJ, **470**, 189
Crossref ADS
↑
Glasser, G. J. 1962, J. Am. Stat. Assoc., **57**, 648
Crossref
↑
Isserstedt, J., & Schindler, R. 1986, A&A, **167**, 11
ADS
↑
Jensen, J. B., et al. 2003, ApJ, **583**, 712
IOPscience ADS
↑
Kelly, B. C., & McKay, T. A. 2004, AJ, **127**, 625
IOPscience ADS
↑
Karachentsev, I., & Drozdovsky, I. O. 1998, A&AS, **131**, 1
Crossref ADS
↑
Karachentsev, I., Musella, I., & Grimaldi, A. 1996, A&A, **310**, 722
ADS
↑
Karachentsev, I., et al. 2002, A&A, **383**, 125
Crossref ADS
↑
Kuchinski, L. E., Madore, B. F., Freedman, W. L., & Trewhela, M. 2001, ApJ, **122**, L729
IOPscience

↑
Lorenz, M. O. 1905, J. Am. Stat. Assoc., ***9****, 209*
↑
Naim, A., Ratnatunga, K., & Griffiths, R. 1997, ApJ, ***476****, 510*
IOPscience ADS
↑
Odewahn, S. C., Windhorst, R. A., Driver, S. P., & Keel, W. 1996, ApJ, ***472****, L13*
IOPscience ADS
↑
Papovich, C. 2002, Ph.D. thesis, Johns Hopkins Univ.
↑
Papovich, C., Dickinson, M., & Ferguson, H. C. 2001, ApJ, ***559****, 620*
IOPscience ADS
↑
Parodi, B. R., Saha, A., Sandage, A., & Tammann, G. A. 2000, ApJ, ***540****, 634*
IOPscience ADS
↑
Peng, C. Y., Ho, L. C., Impey, C. D., & Rix, H.-W. 2002, AJ, ***124****, 266*
IOPscience ADS
↑
Petrosian, V. 1976, ApJ, ***209****, L1*
Crossref ADS
↑
Pierce, M. J. 1994, ApJ, ***430****, 53*
Crossref ADS
↑
Pierce, M. J., McClure, R. D., & Racine, R. 1992, ApJ, ***393****, 523*
Crossref ADS
↑
Pierce, M. J., & Tully, R. B. 1988, ApJ, ***330****, 579*
Crossref ADS
↑
Refregier, A. 2003, MNRAS, ***338****, 35*
Crossref ADS
↑
Russell, D. G. 2002, ApJ, ***565****, 681*

IOPscience ADS
↑
Sandage, A., & Bedke, J. 1994, The Carnegie Atlas of Galaxies, Volume 1 (Washington: Carnegie Inst.)
↑
Schade, D., Lilly, S. J., Crampton, D., Hammer, F., LeFevre, O., & Tresse, L. 1995, ApJ, ***451****, L1*
IOPscience ADS
↑
Schoniger, F., & Sofue, Y. 1994, A&A, ***283****, 21*
ADS
↑
Shanks, T. 1997, MNRAS, ***290****, L77*
Crossref ADS
↑
Shapley, A., Steidel, C. C., Adelberger, K. L., Dickinson, M., Giavalisco, M., & Pettini, M. 2001, ApJ, ***562****, 95*
IOPscience ADS
↑
Simard, L., et al. 2002, ApJS, ***142****, 1*
IOPscience ADS
↑
Stoughton, C., et al. 2002, AJ, ***123****, 485*
IOPscience ADS
↑
Takamiya, M. 1999, ApJS, ***122****, 109*
IOPscience ADS
↑
Theureau, G., Hanski, M., Ekholm, T., Bottinelli, L., Gouguenheim, L., Paturel, G., & Teerikorpi, P. 1997, A&A, ***322****, 730*
ADS
↑
Van Zee, L. 2001, AJ, ***121****, 2003*
IOPscience ADS
↑
Wu, H., Zou, Z. L., Xia, X. Y., & Deng, Z. G. 1998, A&AS, ***132****, 181*

Crossref ADS
↑
Wu, K. 1999, Ph.D. thesis, Univ. California, Santa Cruz
↑
Yasuda, N., Fukugita, M., & Okamura, S. 1997, ApJS, ***108****, 417*
IOPscience ADS

Export references:

BibTeX RIS

Citations

1. *Bayesian bulge–disc decomposition of galaxy images*
   J J Argyle et al 2018 Monthly Notices of the Royal Astronomical Society ***479*** *3076*
   Crossref

2. *The Lyman Alpha Reference Sample*
   Genoveva Micheva et al 2018 Astronomy & Astrophysics ***615*** *A46*
   Crossref

3. *Active galactic nuclei at high redshifts: properties and environment of Type 1 and 2 AGNs*
   C Bornancini and D García Lambas 2018 Monthly Notices of the Royal Astronomical Society ***479*** *2308*
   Crossref

4. *Using transfer learning to detect galaxy mergers*
   Sandro Ackermann et al 2018 Monthly Notices of the Royal Astronomical Society ***479*** *415*
   Crossref

5. *A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE)*
   A. Boselli et al 2018 Astronomy & Astrophysics ***614*** *A56*
   Crossref

6. *Gradient pattern analysis applied to galaxy morphology*

R R Rosa et al 2018 Monthly Notices of the Royal Astronomical Society: Letters ***477*** *L101*
Crossref

7. *An extensive photometric catalogue of CALIFA galaxies*
   Colleen Gilhuly and Stéphane Courteau 2018 Monthly Notices of the Royal Astronomical Society ***477*** *845*
   Crossref

8. *Simulating galaxies in the reionization era with FIRE-2: morphologies and sizes*
   Xiangcheng Ma et al 2018 Monthly Notices of the Royal Astronomical Society ***477*** *219*
   Crossref

9. *Integrating human and machine intelligence in galaxy morphology classification tasks*
   Melanie R Beck et al 2018 Monthly Notices of the Royal Astronomical Society ***476*** *5516*
   Crossref

10. *On the UV compactness and morphologies of typical Lyman emitters from z 2 to z 6*
    Ana Paulino-Afonso et al 2018 Monthly Notices of the Royal Astronomical Society ***476*** *5479*
    Crossref

11. *The SAMI Galaxy Survey: gas content and interaction as the drivers of kinematic asymmetry*
    J V Bloom et al 2018 Monthly Notices of the Royal Astronomical Society ***476*** *2339*
    Crossref

12. *Major merging history in CANDELS. I. Evolution of the incidence of massive galaxy–galaxy pairs from z = 3 to z 0*
    Kameswara Bharadwaj Mantha et al 2018 Monthly Notices of the Royal Astronomical Society ***475*** *1549*
    Crossref

13. *Galaxy interactions trigger rapid black hole growth: An unprecedented view from the Hyper Suprime-Cam survey*
Andy D Goulding et al 2018 Publications of the Astronomical Society of Japan ***70***
Crossref

14. *The impact of redshift on galaxy morphometric classification: case studies for SDSS, DES, LSST and HST with morfometryka*
Leonardo de Albernaz Ferreira and Fabricio Ferrari 2018 Monthly Notices of the Royal Astronomical Society ***473*** *2701*
Crossref

15. *An automatic taxonomy of galaxy morphology using unsupervised machine learning*
Alex Hocking et al 2018 Monthly Notices of the Royal Astronomical Society ***473*** *1108*
Crossref

16. *The Morphological Evolution, AGN Fractions, Dust Content, Environments, and Downsizing of Massive Green Valley Galaxies at 0.5 < z < 2.5 in 3D-HST/CANDELS*
Yizhou Gu et al. 2018 The Astrophysical Journal ***855*** *10*
IOPscience

17. *The Intrinsic Characteristics of Galaxies on the SFR–M_* Plane at 1.2 < z < 4: I. The Correlation between Stellar Age, Central Density, and Position Relative to the Main Sequence*
Bomee Lee et al. 2018 The Astrophysical Journal ***853*** *131*
IOPscience

18. *MACS J0553.4−3342: a young merging galaxy cluster caught through the eyes of Chandra and HST*
M. B. Pandge et al 2017 Monthly Notices of the Royal Astronomical Society ***472*** *2042*
Crossref

19. *The morphological transformation of red sequence galaxies in clusters since z 1*

P. Cerulo et al 2017 Monthly Notices of the Royal Astronomical Society ***472*** *254*
Crossref

20. *A relationship of polycyclic aromatic hydrocarbon features with galaxy merger in star-forming galaxies at z < 0.2*
Katsuhiro L. Murata et al 2017 Monthly Notices of the Royal Astronomical Society ***472*** *39*
Crossref

21. *Local two-sample testing: a new tool for analysing high-dimensional astronomical data*
P. E. Freeman et al 2017 Monthly Notices of the Royal Astronomical Society ***471*** *3273*
Crossref

22. *A consistent measure of the merger histories of massive galaxies using close-pair statistics – I. Major mergers at z < 3.5*
Carl J. Mundy et al 2017 Monthly Notices of the Royal Astronomical Society ***470*** *3507*
Crossref

23. *Alex Hocking et al 2017 4179*
Crossref

24. *The redshift evolution of major merger triggering of luminous AGNs: a slight enhancement at z 2*
Timothy Hewlett et al 2017 Monthly Notices of the Royal Astronomical Society ***470*** *755*
Crossref

25. *The effect of the environment on the structure, morphology and star formation history of intermediate-redshift galaxies*
Kshitija Kelkar et al 2017 Monthly Notices of the Royal Astronomical Society ***469*** *4551*
Crossref

26. *Data-driven imbalance and hard particle detection in rotating machinery*

using infrared thermal imaging
Olivier Janssens et al 2017 Infrared Physics & Technology ***82*** *28*
Crossref

27. *HR-COSMOS: Kinematics of star-forming galaxies at z ~ 0.9*
D. Pelliccia et al 2017 Astronomy & Astrophysics ***599*** *A25*
Crossref

28. *Unveiling the nature of bright z 7 galaxies with the Hubble Space Telescope*
R. A. A. Bowler et al 2017 Monthly Notices of the Royal Astronomical Society ***466*** *3612*
Crossref

29. *SINFONI-HiZELS: the dynamics, merger rates and metallicity gradients of 'typical' star-forming galaxies at z = 0.8–2.2*
J. Molina et al 2017 Monthly Notices of the Royal Astronomical Society ***466*** *892*
Crossref

30. *The structural and size evolution of star-forming galaxies over the last 11 Gyr*
Ana Paulino-Afonso et al 2017 Monthly Notices of the Royal Astronomical Society ***465*** *2717*
Crossref

31. *The SAMI Galaxy Survey: asymmetry in gas kinematics and its links to stellar mass and star formation*
J. V. Bloom et al 2017 Monthly Notices of the Royal Astronomical Society ***465*** *123*
Crossref

32. *Galaxy Zoo: morphological classifications for 120 000 galaxies in HST legacy imaging*
Kyle W. Willett et al 2017 Monthly Notices of the Royal Astronomical Society ***464*** *4176*
Crossref

33. *Incidence of WISE -selected obscured AGNs in major mergers and interactions from the SDSS*
Madalyn E. Weston et al 2017 Monthly Notices of the Royal Astronomical Society ***464*** *3882*
Crossref

34. *A study of diffuse radio sources and X-ray emission in six massive clusters*
V. Parekh et al 2017 Monthly Notices of the Royal Astronomical Society ***464*** *2752*
Crossref

35. *Environmental Effects on Galaxy Evolution. II. Quantifying the Tidal Features in NIR Images of the Cluster Abell 85*
Y. Venkatapathy et al. 2017 The Astronomical Journal ***154*** *227*
IOPscience

36. *Infrared Selection of Obscured Active Galactic Nuclei in the COSMOS Field*
Yu-Yen Chang et al. 2017 The Astrophysical Journal Supplement Series ***233*** *19*
IOPscience

37. *X-Ray Morphological Analysis of the Planck ESZ Clusters*
Lorenzo Lovisari et al. 2017 The Astrophysical Journal ***846*** *51*
IOPscience

38. *Galaxy Zoo: Major Galaxy Mergers Are Not a Significant Quenching Pathway*
Anna K. Weigel et al. 2017 The Astrophysical Journal ***845*** *145*
IOPscience

39. *The Role of the Most Luminous Obscured AGNs in Galaxy Assembly at z ~ 2*
Duncan Farrah et al. 2017 The Astrophysical Journal ***844*** *106*
IOPscience

40. *Star Formation at z = 2.481 in the Lensed Galaxy SDSS J1110+6459. II. What is Missed at the Normal Resolution of the Hubble Space Telescope?*
J. R. Rigby et al. 2017 The Astrophysical Journal ***843*** *79*
IOPscience

41. *Physical Properties of Sub-galactic Clumps at 0.5 Z 1.5 in the UVUDF*

*Emmaris Soto et al. 2017 The Astrophysical Journal **837** 6*
IOPscience

42. *Effects of mergers on non-parametric morphologies*
*Lucas A. Bignone et al 2016 Proceedings of the International Astronomical Union **12** 51*
Crossref

43. *Teaching decision theory proof strategies using a crowdsourcing problem*
Luís Gustavo Esteves et al 2016 The American Statistician 0
Crossref

44. *RemoveYoung: A tool for the removal of the young stellar component in galaxies within an adjustable age cutoff*
*J. M. Gomes and P. Papaderos 2016 Astronomy & Astrophysics **594** A49*
Crossref

45. *ASTErIsM: application of topometric clustering algorithms in automatic galaxy detection and classification*
*A. Tramacere et al 2016 Monthly Notices of the Royal Astronomical Society **463** 2939*
Crossref

46. *Can giant radio halos probe the merging rate of galaxy clusters?*
*R. Cassano et al 2016 Astronomy & Astrophysics **593** A81*
Crossref

47. *The SAMI Galaxy Survey: the link between angular momentum and optical morphology*
*L. Cortese et al 2016 Monthly Notices of the Royal Astronomical Society **463** 170*
Crossref

48. *Multi-wavelength landscape of the young galaxy cluster RXJ 1257.2+4738 atz= 0.866*
*I. Pintos-Castro et al 2016 Astronomy & Astrophysics **592** A108*
Crossref

49. *Roberto Rampazzo et al 2016 **435** 189*

Crossref

50. *Morphological classification of local luminous infrared galaxies*
A. Psychogyios et al 2016 Astronomy & Astrophysics ***591*** *A1*
Crossref

51. *Morphological Classification of High-redshift Massive Galaxies in the COSMOS/UltraVISTA Field*
Fang Guan-wen et al 2016 Chinese Astronomy and Astrophysics ***40*** *186*
Crossref

52. *How unusual is the cool-core radio halo cluster CL1821+643?*
Ruta Kale and Viral Parekh 2016 Monthly Notices of the Royal Astronomical Society ***459*** *2940*
Crossref

53. *Automatic approach to solve the morphological galaxy classification problem using the sparse representation technique and dictionary learning*
R. Diaz-Hernandez et al 2016 Experimental Astronomy
Crossref

54. *Beyond spheroids and discs: classifications of CANDELS galaxy structure at 1.4 < z < 2 via principal component analysis*
Michael A. Peth et al 2016 Monthly Notices of the Royal Astronomical Society ***458*** *963*
Crossref

55. *Cluster Physics with Merging Galaxy Clusters*
Sandor M. Molnar 2016 Frontiers in Astronomy and Space Sciences ***2***
Crossref

56. *Shape asymmetry: a morphological indicator for automatic detection of galaxies in the post-coalescence merger stages*
M. M. Pawlik et al 2016 Monthly Notices of the Royal Astronomical Society ***456*** *3032*
Crossref

57. *Jellyfish: the origin and distribution of extreme ram-pressure stripping events*

in massive galaxy clusters
Conor McPartland et al 2016 Monthly Notices of the Royal Astronomical Society ***455*** *2994*
Crossref

58. *Linking the structural properties of galaxies and their star formation histories with STAGES*
Carlos Hoyos et al 2016 Monthly Notices of the Royal Astronomical Society ***455*** *295*
Crossref

59. *The Gini Coefficient as a Tool for Image Family Idenitification in Strong Lensing Systems with Multiple Images*
Michael K. Florian et al. 2016 The Astrophysical Journal Letters ***816*** *L23*
IOPscience

60. *The Information Content of Stellar Halos: Stellar Population Gradients and Accretion Histories in Early-type Illustris Galaxies*
B. A. Cook et al. 2016 The Astrophysical Journal ***833*** *158*
IOPscience

61. *VLA and ALMA Imaging of Intense Galaxy-wide Star Formation in z ~ 2 Galaxies*
W. Rujopakarn et al. 2016 The Astrophysical Journal ***833*** *12*
IOPscience

62. *The Gini Coefficient as a Morphological Measurement of Strongly Lensed Galaxies in the Image Plane*
Michael K. Florian et al. 2016 The Astrophysical Journal ***832*** *168*
IOPscience

63. *Merging Galaxies with Tidal Tails in COSMOS to z = 1*
Zhang Zheng Wen ( ) and Xian Zhong Zheng ( ) 2016 The Astrophysical Journal ***832*** *90*
IOPscience

64. *The SAMI Galaxy Survey: Galaxy Interactions and Kinematic Anomalies in Abell 119*

Sree Oh et al. 2016 The Astrophysical Journal ***832*** *69*
IOPscience

65. *IROCKS: Spatially Resolved Kinematics of z ~ 1 Star-forming Galaxies*
Etsuko Mieda et al. 2016 The Astrophysical Journal ***831*** *78*
IOPscience

66. *ZENS. IV. Similar Morphological Changes Associated with Mass Quenching and Environment Quenching and the Relative Importance of Bulge Growth versus the Fading of Disks**
C. M. Carollo et al. 2016 The Astrophysical Journal ***818*** *180*
IOPscience

67. *Merger Signatures in the Dynamics of Star-forming Gas*
Chao-Ling Hung ( ) et al. 2016 The Astrophysical Journal ***816*** *99*
IOPscience

68. *Automatic Selection of Multiple Images in the Frontier Field Clusters*
Guillaume Mahler et al 2015 Proceedings of the International Astronomical Union ***11*** *779*
Crossref

69. *Detecting H II Regions in "Pure" Starburst Galaxies with SDSS Data*
Anthony Crider et al 2015 Proceedings of the International Astronomical Union ***11***
Crossref

70. *Galaxy morphologies in the era of big-data surveys*
M. Huertas-Company 2015 Proceedings of the International Astronomical Union ***11*** *118*
Crossref

71. *The illustris simulation: Public data release*
D. Nelson et al 2015 Astronomy and Computing ***13*** *12*
Crossref

72. *Thermal image based fault diagnosis for rotating machinery*
Olivier Janssens et al 2015 Infrared Physics & Technology ***73*** *78*
Crossref

73. *Diverse structural evolution atz > 1 in cosmologically simulated galaxies*
Gregory F. Snyder et al 2015 Monthly Notices of the Royal Astronomical Society ***451*** *4290*
Crossref

74. *Extreme emission-line galaxies out to z ~ 1 in zCOSMOS*
R. Amorín et al 2015 Astronomy & Astrophysics ***578*** *A105*
Crossref

75. *The evolution of disc galaxies with and without classical bulges since z 1*
S. Sachdeva et al 2015 Monthly Notices of the Royal Astronomical Society ***451*** *4521*
Crossref

76. *Morphology and Structure of Ultraluminous Infrared Galaxies at z 2 in the EGS Field*
FANG Guan-wen et al 2015 Chinese Astronomy and Astrophysics ***39*** *156*
Crossref

77. *An extremely young massive clump forming by gravitational collapse in a primordial galaxy*
A. Zanella et al 2015 Nature ***521*** *54*
Crossref

78. *The Lyman alpha reference sample*
L. Guaita et al 2015 Astronomy & Astrophysics ***576*** *A51*
Crossref

79. *Morphology parameters: substructure identification in X-ray galaxy clusters*
Viral Parekh et al 2015 Astronomy & Astrophysics ***575*** *A127*
Crossref

80. *Shapley Supercluster Survey: Galaxy evolution from filaments to cluster cores*
P. Merluzzi et al 2015 Monthly Notices of the Royal Astronomical Society ***446*** *803*
Crossref

81. *Galactic Angular Momentum in the Illustris Simulation: Feedback and the*

Hubble Sequence
Shy Genel et al. 2015 The Astrophysical Journal Letters ***804*** *L40*
IOPscience

82. *Morphology and structure of BzK-selected galaxies at z ~ 2 in the CANDELS-COSMOS field*
Guan-Wen Fang et al 2015 Research in Astronomy and Astrophysics ***15*** *819*
IOPscience

83. *Morphology and structure of extremely red objects at z ~ 1 in the CANDELS-COSMOS field*
Guan-Wen Fang et al 2015 Research in Astronomy and Astrophysics ***15*** *811*
IOPscience

84. *CANDELS Visual Classifications: Scheme, Data Release, and First Results*
Jeyhan S. Kartaltepe et al. 2015 The Astrophysical Journal Supplement Series ***221*** *11*
IOPscience

85. *The Spitzer Survey of Stellar Structure in Galaxies (S4G): Stellar Masses, Sizes, and Radial Profiles for 2352 Nearby Galaxies*
Juan Carlos Muñoz-Mateos et al. 2015 The Astrophysical Journal Supplement Series ***219*** *3*
IOPscience

86. *A Catalog of Visually Classified Galaxies in the Local (z ~ 0.01) Universe*
H. B. Ann et al. 2015 The Astrophysical Journal Supplement Series ***217*** *27*
IOPscience

87. *A Multiwavelength Study of Tadpole Galaxies in the Hubble Ultra Deep Field*
Amber N. Straughn et al. 2015 The Astrophysical Journal ***814*** *97*
IOPscience

88. *Morfometryka—A New Way of Establishing Morphological Classification of Galaxies*
F. Ferrari et al. 2015 The Astrophysical Journal ***814*** *55*

IOPscience

89. *Physical Properties of a Pilot Sample of Spectroscopic Close Pair Galaxies at z ~ 2*
David R. Law et al. 2015 The Astrophysical Journal ***808*** *160*
IOPscience

90. *Physical Properties of Compact Star-forming Galaxies at z ~ 2–3*
Guanwen Fang et al. 2015 The Astrophysical Journal ***807*** *139*
IOPscience

91. *Major Mergers Host the Most-luminous Red Quasars at z ~ 2: A Hubble Space Telescope WFC3/IR Study*
Eilat Glikman et al. 2015 The Astrophysical Journal ***806*** *218*
IOPscience

92. *A Physical Approach to the Identification of High-z Mergers: Morphological Classification in the Stellar Mass Domain.*
A. Cibinel et al. 2015 The Astrophysical Journal ***805*** *181*
IOPscience

93. *Kinematic Classifications of Local Interacting Galaxies: Implications for the Merger/Disk Classifications at High-z*
Chao-Ling Hung ( ) et al. 2015 The Astrophysical Journal ***803*** *62*
IOPscience

94. *The Role of Bulge Formation in the Homogenization of Stellar Populations at z~2 as revealed by Internal Color Dispersion in CANDELS*
Steven Boada et al. 2015 The Astrophysical Journal ***803*** *104*
IOPscience

95. *SINS/zC-SINF Survey of z ~ 2 Galaxy Kinematics: Rest-frame Morphology, Structure, and Colors from Near-infrared Hubble Space Telescope Imaging*
S. Tacchella et al. 2015 The Astrophysical Journal ***802*** *101*
IOPscience

96. *Star Formation in High-redshift Cluster Ellipticals*
Cory R. Wagner et al. 2015 The Astrophysical Journal ***800*** *107*
IOPscience

97. *Physical and Morphological Properties of [O II] Emitting Galaxies in the HETDEX Pilot Survey*
Joanna S. Bridge et al. 2015 The Astrophysical Journal ***799*** *205*
IOPscience

98. *An ALMA Survey of Submillimeter Galaxies in the Extended Chandra Deep Field South: Near-infrared Morphologies and Stellar Sizes*
Chian-Chou Chen et al. 2015 The Astrophysical Journal ***799*** *194*
IOPscience

99. *Galaxy And Mass Assembly (GAMA): galaxy close pairs, mergers and the future fate of stellar mass*
A. S. G. Robotham et al 2014 Monthly Notices of the Royal Astronomical Society ***444*** *3986*
Crossref

100. *The Evolution of Galaxy Structure Over Cosmic Time*
Christopher J. Conselice 2014 Annual Review of Astronomy and Astrophysics ***52*** *291*
Crossref

101. *Quantifying galaxy morphology*
M. Pawlik 2014 Astronomy & Geophysics ***55*** *6.13*
Crossref

102. *The ATLAS3D project - XXIX. The new look of early-type galaxies and surrounding fields disclosed by extremely deep optical images*
P.-A. Duc et al 2014 Monthly Notices of the Royal Astronomical Society ***446*** *120*
Crossref

103. *The triggering of starbursts in low-mass galaxies*
Federico Lelli et al 2014 Monthly Notices of the Royal Astronomical Society ***445*** *1694*
Crossref

104. *Spitzer/Infrared Array Camera near-infrared features in the outer parts of S4G galaxies*

Seppo Laine et al 2014 Monthly Notices of the Royal Astronomical Society ***444*** *3015*
Crossref

105. *Galaxy and Mass Assembly (GAMA): merging galaxies and their properties*
Roberto De Propris et al 2014 Monthly Notices of the Royal Astronomical Society ***444*** *2200*
Crossref

106. *Dancing in the dark: galactic properties trace spin swings along the cosmic web*
Y. Dubois et al 2014 Monthly Notices of the Royal Astronomical Society ***444*** *1453*
Crossref

107. *Gas accretion from minor mergers in local spiral galaxies*
E. M. Di Teodoro and F. Fraternali 2014 Astronomy & Astrophysics ***567*** *A68*
Crossref

108. *The importance of minor-merger-driven star formation and black hole growth in disc galaxies*
Sugata Kaviraj 2014 Monthly Notices of the Royal Astronomical Society ***440*** *2944*
Crossref

109. *WINGS Data Release: a database of galaxies in nearby clusters*
A. Moretti et al 2014 Astronomy & Astrophysics ***564*** *A138*
Crossref

110. *Investigating evidence for different black hole accretion modes since redshift z 1*
A. Georgakakis et al 2014 Monthly Notices of the Royal Astronomical Society
Crossref

111. *Photometric studies of Abell 1664: the subtle effect a minor merger has on cluster galaxies*

D. Kleiner et al 2014 Monthly Notices of the Royal Astronomical Society ***439*** *2755*
Crossref

112. *Mass decomposition of galaxies using DECA software package*
A. V. Mosenkov 2014 Astrophysical Bulletin ***69*** *99*
Crossref

113. *The morphological transformation of red sequence galaxies in the distant cluster XMMU J1229+0151*
P. Cerulo et al 2014 Monthly Notices of the Royal Astronomical Society ***439*** *2790*
Crossref

114. *Listening to galaxies tuning at z ~ 2.5–3.0: The first strikes of the Hubble fork*
M. Talia et al 2014 Astronomy & Astrophysics ***562*** *A113*
Crossref

115. *Non-parametric cell-based photometric proxies for galaxy morphology: methodology and application to the morphologically defined star formation–stellar mass relation of spiral galaxies in the local universe*
M. W. Grootes et al 2014 Monthly Notices of the Royal Astronomical Society ***437*** *3883*
Crossref

116. *Structure and Morphology of X-Ray-selected Active Galactic Nucleus Hosts at 1 < z < 3 in the CANDELS-COSMOS Field*
Lulu Fan et al. 2014 The Astrophysical Journal Letters ***784*** *L9*
IOPscience

117. *Late-Stage Galaxy Mergers in Cosmos to z ~ 1*
C. N. Lackner et al. 2014 The Astronomical Journal ***148*** *137*
IOPscience

118. *The FUV to Near-IR Morphologies of Luminous Infrared Galaxies in the Goals Sample*
S. M. Petty et al. 2014 The Astronomical Journal ***148*** *111*
IOPscience

119. *Star Formation Histories across the Interacting Galaxy NGC 6872, the Largest-known Spiral*
Rafael T. Eufrasio et al. 2014 The Astrophysical Journal ***795*** *89*
IOPscience

120. *A Comparison of the Morphological Properties between Local and z ~ 1 Infrared Luminous Galaxies: Are Local and High-z (U)LIRGs Different?*
Chao-Ling Hung et al. 2014 The Astrophysical Journal ***791*** *63*
IOPscience

121. *Probing Asymmetric Structures in the Outskirts of Galaxies*
Zhang Zheng Wen et al. 2014 The Astrophysical Journal ***787*** *130*
IOPscience

122. *How Robust are the Size Measurements of High-redshift Compact Galaxies?*
Roozbeh Davari et al. 2014 The Astrophysical Journal ***787*** *69*
IOPscience

123. *A Near-infrared Census of the Multicomponent Stellar Structure of Early-type Dwarf Galaxies in the Virgo Cluster*
J. Janz et al. 2014 The Astrophysical Journal ***786*** *105*
IOPscience

124. *Evolution of the Fraction of Clumpy Galaxies at 0.2 < z < 1.0 in the COSMOS Field*
K. L. Murata et al. 2014 The Astrophysical Journal ***786*** *15*
IOPscience

125. *Properties of Submillimeter Galaxies in the CANDELS GOODS-South Field*
Tommy Wiklind et al. 2014 The Astrophysical Journal ***785*** *111*
IOPscience

126. *What is the Physical Origin of Strong Ly Emission? I. Demographics of Ly Emitter Structures*
Takatoshi Shibuya et al. 2014 The Astrophysical Journal ***785*** *64*
IOPscience

127. *The Properties of H Emission-line Galaxies at Z = 2.24*
Fang Xia An et al. 2014 The Astrophysical Journal ***784*** *152*

IOPscience

128. *Bulgeless Galaxies at Intermediate Redshift: Sample Selection, Color Properties, and the Existence of Powerful Active Galactic Nuclei*
Luca Bizzocchi et al. 2014 The Astrophysical Journal ***782*** *22*
IOPscience

129. *Morphological Parameters of a Spitzer Survey of Stellar Structure in Galaxies*
B. W. Holwerda et al. 2014 The Astrophysical Journal ***781*** *12*
IOPscience

130. *The Dawes Review 1: Kinematic Studies of Star-Forming Galaxies Across Cosmic Time*
Karl Glazebrook 2013 Publications of the Astronomical Society of Australia ***30***
Crossref

131. *The nature of [S III] 9096, 9532 emitters at z = 1.34 and 1.23*
FangXia An et al 2013 Science China Physics, Mechanics and Astronomy ***56*** *2226*
Crossref

132. *A BOINC based, citizen-science project for pixel spectral energy distribution fitting of resolved galaxies in multi-wavelength surveys*
Kevin Vinsen and David Thilker 2013 Astronomy and Computing ***3-4*** *1*
Crossref

133. *The ALHAMBRA survey: reliable morphological catalogue of 22 051 early- and late-type galaxies*
M. Povic et al 2013 Monthly Notices of the Royal Astronomical Society ***435*** *3444*
Crossref

134. *Quantified H I morphology - VII. Star formation and tidal influence on local dwarf H I morphology*
B. W. Holwerda et al 2013 Monthly Notices of the Royal Astronomical Society

Crossref

135. *Pushing the limits of the Gaia space mission by analyzing galaxy morphology*
A. Krone-Martins et al 2013 Astronomy & Astrophysics ***556*** *A102*
Crossref

136. *New image statistics for detecting disturbed galaxy morphologies at high redshift*
P. E. Freeman et al 2013 Monthly Notices of the Royal Astronomical Society
Crossref

137. *H 3: an H imaging survey of HI selected galaxies from ALFALFA*
M. Fossati et al 2013 Astronomy & Astrophysics ***553*** *A91*
Crossref

138. *The spatial extent and distribution of star formation in 3D-HST mergers at z 1.5*
K. B. Schmidt et al 2013 Monthly Notices of the Royal Astronomical Society
Crossref

139. *The merger fraction of active and inactive galaxies in the local Universe through an improved non-parametric classification*
Stefano Cotini et al 2013 Monthly Notices of the Royal Astronomical Society ***431*** *2661*
Crossref

140. *The merger rates and sizes of galaxies across the peak epoch of star formation from the HiZELS survey*
J. P. Stott et al 2013 Monthly Notices of the Royal Astronomical Society
Crossref

141. *AGN host galaxies at redshift z 0.7: peculiar or not?*
A. Böhm et al 2013 Astronomy & Astrophysics ***549*** *A46*
Crossref

142. *The insignificance of major mergers in driving star formation at z 2*
S. Kaviraj et al 2013 Monthly Notices of the Royal Astronomical Society: Letters ***429*** *L40*

Crossref

143. *Enhanced Nitrogen in Morphologically Disturbed Blue Compact Galaxies at 0.20 < z < 0.35: Probing Galaxy Merging Features*
Jiwon Chung et al. 2013 The Astrophysical Journal Letters ***767*** *L15*
IOPscience

144. *Demographics of Sloan Digital Sky Survey Galaxies along the Hubble Sequence*
Kyuseok Oh et al. 2013 The Astronomical Journal ***146*** *151*
IOPscience

145. *Investigating the Core Morphology-Seyfert Class Relationship with Hubble Space Telescope Archival Images of Local Seyfert Galaxies*
M. J. Rutkowski et al. 2013 The Astronomical Journal ***146*** *11*
IOPscience

146. *The Role of Galaxy Interaction in the SFR-M * Relation: Characterizing Morphological Properties of Herschel-selected Galaxies at 0.2 < z < 1.5*
Chao-Ling Hung et al. 2013 The Astrophysical Journal ***778*** *129*
IOPscience

147. *The Zurich Environmental Study (ZENS) of Galaxies in Groups along the Cosmic Web. II. Galaxy Structural Measurements and the Concentration of Morphologically Classified Satellites in Diverse Environments*
A. Cibinel et al. 2013 The Astrophysical Journal ***776*** *72*
IOPscience

148. *Green Galaxies in the COSMOS Field*
Zhizheng Pan et al. 2013 The Astrophysical Journal ***776*** *14*
IOPscience

149. *Fine-structure Fe II* Emission and Resonant Mg II Emission in z ~ 1 Star-forming Galaxies*
Katherine A. Kornei et al. 2013 The Astrophysical Journal ***774*** *50*
IOPscience

150. *CANDELS: The Correlation between Galaxy Morphology and Star Formation Activity at z ~ 2*

Bomee Lee et al. 2013 The Astrophysical Journal ***774*** *47*
IOPscience

151. *Physical Properties of Spectroscopically Confirmed Galaxies at z 6. II. Morphology of the Rest-frame UV Continuum and Ly Emission*
Linhua Jiang et al. 2013 The Astrophysical Journal ***773*** *153*
IOPscience

152. *Emission-line Galaxies from the Hubble Space Telescope Probing Evolution and Reionization Spectroscopically (PEARS) Grism Survey. II. The Complete Sample*
Nor Pirzkal et al. 2013 The Astrophysical Journal ***772*** *48*
IOPscience

153. *Galaxies in X-Ray Groups. III. Satellite Color and Morphology Transformations*
Matthew R. George et al. 2013 The Astrophysical Journal ***770*** *113*
IOPscience

154. *High-resolution Near-infrared Imaging of Submillimeter Galaxies*
Paula Aguirre et al. 2013 The Astrophysical Journal ***768*** *164*
IOPscience

155. *Quantified H I morphology - VI. The morphology of extended discs in UV and H I*
B. W. Holwerda et al 2012 Monthly Notices of the Royal Astronomical Society ***427*** *3159*
Crossref

156. *Newborn spheroids at high redshift: when and how did the dominant, old stars in today's massive galaxies form?*
S. Kaviraj et al 2012 Monthly Notices of the Royal Astronomical Society
Crossref

157. *A central excess of stripped-envelope supernovae within disturbed galaxies*
S. M. Habergham et al 2012 Monthly Notices of the Royal Astronomical Society n/a
Crossref

158. *The structures of distant galaxies - V. The evolution of galaxy structure in stellar mass at z<1*
M. M. Lanyon-Foster et al 2012 Monthly Notices of the Royal Astronomical Society n/a
Crossref

159. *Properties of the Photometric Components of Lenticular Galaxies*
J. Alfonso L. Aguerri 2012 Advances in Astronomy ***2012*** *1*
Crossref

160. *Galaxy And Mass Assembly (GAMA): galaxy environments and star formation rate variations*
D. B. Wijesinghe et al 2012 Monthly Notices of the Royal Astronomical Society no
Crossref

161. *AGN-host galaxy connection: morphology and colours of X-ray selected AGN at z 2*
M. Povi et al 2012 Astronomy and Astrophysics ***541*** *A118*
Crossref

162. *Morphology of galaxies in the WINGS clusters : Galaxy morphology in WINGS*
G. Fasano et al 2012 Monthly Notices of the Royal Astronomical Society no
Crossref

163. *References*
2012 269
Crossref

164. *Dissecting the Stellar-mass–SFR Correlation in z = 1 Star-forming Disk Galaxies*
F. Salmi et al. 2012 The Astrophysical Journal Letters ***754*** *L14*
IOPscience

165. *Metallicities of Emission-line Galaxies from HST ACS PEARS and HST WFC3 ERS Grism Spectroscopy at 0.6 < z < 2.4*
Lifang Xia et al. 2012 The Astronomical Journal ***144*** *28*
IOPscience

166. *A Panchromatic Catalog of Early-type Galaxies at Intermediate Redshift in the Hubble Space Telescope Wide Field Camera 3 Early Release Science Field*
M. J. Rutkowski et al. 2012 The Astrophysical Journal Supplement Series ***199*** *4*
IOPscience

167. *A HST/WFC3-IR Morphological Survey of Galaxies at z = 1.5-3.6. II. The Relation between Morphology and Gas-phase Kinematics*
David R. Law et al. 2012 The Astrophysical Journal ***759*** *29*
IOPscience

168. *The Impact of Interactions, Bars, Bulges, and Active Galactic Nuclei on Star Formation Efficiency in Local Massive Galaxies*
Amélie Saintonge et al. 2012 The Astrophysical Journal ***758*** *73*
IOPscience

169. *The Properties and Prevalence of Galactic Outflows at z ~ 1 in the Extended Groth Strip*
Katherine A. Kornei et al. 2012 The Astrophysical Journal ***758*** *135*
IOPscience

170. *An Ultraviolet Ultra-luminous Lyman Break Galaxy at Z = 2.78 in NDWFS Boötes Field*
Fuyan Bian et al. 2012 The Astrophysical Journal ***757*** *139*
IOPscience

171. *Spitzer Observations of Young Red Quasars*
Tanya Urrutia et al. 2012 The Astrophysical Journal ***757*** *125*
IOPscience

172. *Smooth(er) Stellar Mass Maps in CANDELS: Constraints on the Longevity of Clumps in High-redshift Star-forming Galaxies*
Stijn Wuyts et al. 2012 The Astrophysical Journal ***753*** *114*
IOPscience

173. *CANDELS: Correlations of Spectral Energy Distributions and Morphologies with Star formation Status for Massive Galaxies at z ~ 2*

Tao Wang et al. 2012 The Astrophysical Journal ***752*** *134*
IOPscience

174. *Passive and Star-forming Galaxies at 1.4 z 2.5 in the AEGIS Field*
Guanwen Fang et al. 2012 The Astrophysical Journal ***751*** *109*
IOPscience

175. *The Hubble Space Telescope Cluster Supernova Survey. III. Correlated Properties of Type Ia Supernovae and Their Hosts at 0.9 < Z < 1.46*
J. Meyers et al. 2012 The Astrophysical Journal ***750*** *1*
IOPscience

176. *An HST/WFC3-IR Morphological Survey of Galaxies at z = 1.5-3.6. I. Survey Description and Morphological Properties of Star-forming Galaxies*
David R. Law et al. 2012 The Astrophysical Journal ***745*** *85*
IOPscience

177. *Automated morphological classification of Sloan Digital Sky Survey red sequence galaxies : Automated classification of SDSS red galaxies*
Judy Y. Cheng et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

178. *Galaxy stellar mass functions of different morphological types in clusters, and their evolution between z= 0.8 and 0 : Galaxy stellar mass functions and morphologies*
Benedetta Vulcani et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

179. *The evolution of early-type galaxies in clusters from z 0.8 to z 0: the ellipticity distribution and the morphological mix : Evolution of early-type galaxies in clusters*
Benedetta Vulcani et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

180. *The HST/ACS Coma Cluster Survey - III. Structural parameters of galaxies*

using single Sérsic fits : Structural parameters of galaxies in Coma
Carlos Hoyos et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

181. *A coincidence of disturbed morphology and blue UV colour: minor-merger-driven star formation in early-type galaxies at z 0.6 : Minor-merger-driven star formation in ETGs*
Sugata Kaviraj et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

182. *The zCOSMOS-Bright survey: the clustering of early and late galaxy morphological types since z 1 : The zCOSMOS-Bright survey*
S. de la Torre et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

183. *Physical Properties of Galaxies from z = 2–4*
Alice E. Shapley 2011 Annual Review of Astronomy and Astrophysics ***49*** *525*
Crossref

184. *The red-sequence of 72 WINGS local galaxy clusters*
T. Valentinuzzi et al 2011 Astronomy and Astrophysics ***536*** *A34*
Crossref

185. *A new automatic method to identify galaxy mergers - I. Description and application to the Space Telescope A901/902 Galaxy Evolution Survey : Automated merger detection using residuals*
Carlos Hoyos et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

186. *Merger-induced scatter and bias in the cluster mass-Sunyaev-Zel'dovich effect scaling relation : Merger-induced scatter in the M-Y relation*
Elisabeth Krause et al 2011 Monthly Notices of the Royal Astronomical Society no

Crossref

187. *Tidal dwarf galaxies in the nearby Universe : Tidal dwarf galaxies in the nearby Universe*
Sugata Kaviraj et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

188. *Black hole accretion and host galaxies of obscured quasars in XMM-COSMOS*
*V. Mainieri et al 2011 Astronomy and Astrophysics **535** A80*
Crossref

189. *The bimodality of the 10k zCOSMOS-bright galaxies up to z ~ 1: a new statistical and portable classification based on optical galaxy properties*
*G. Coppa et al 2011 Astronomy and Astrophysics **535** A10*
Crossref

190. *Antlia Dwarf Galaxy: distance, quantitative morphology and recent formation history via statistical field correction : Antlia Dwarf Galaxy*
Kevin A. Pimbblet and Warrick J. Couch 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

191. *Quantifying galaxy shapes: sérsiclets and beyond : Quantifying galaxy shapes*
René et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

192. *Oxford SWIFT integral field spectrograph and multiwavelength observations of the Eagle galaxy at z= 0.77 : The Eagle galaxy at z = 0.77*
Susan A. Kassin et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

193. *Quantified H i morphology - IV. The merger fraction and rate in WHISP : WHISP merger fraction and rate*
B. W. Holwerda et al 2011 Monthly Notices of the Royal Astronomical

Society no
Crossref

194. *Quantified H i morphology - III. Merger visibility times from H i in galaxy simulations : Merger visibility times in H i*
B. W. Holwerda et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

195. *Quantified H i morphology - I. Multi-wavelength analysis of the THINGS galaxies : Multi-wavelength morphology of the THINGS galaxies*
B. W. Holwerda et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

196. *Quantified H i morphology - V. H i discs in the Virgo cluster : H i morphology in Virgo*
B. W. Holwerda et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

197. *Quantified H i morphology - II. Lopsidedness and interaction in WHISP column density maps : Lopsidedness and interaction in H i maps*
B. W. Holwerda et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

198. *The tumultuous formation of the Hubble sequence at z > 1 examined with HST/Wide-Field Camera-3 observations of the Hubble Ultra Deep Field : Galaxy structural and spectral types at z > 1*
C. J. Conselice et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

199. *Galaxy Zoo: multimergers and the Millennium Simulation*
D. W. Darg et al 2011 Monthly Notices of the Royal Astronomical Society ***416*** *1745*
Crossref

200. *COLD GASS, an IRAM legacy survey of molecular gas in massive galaxies - II. The non-universality of the molecular gas depletion time-scale : COLD GASS: variable molecular gas depletion times*
Amélie Saintonge et al 2011 Monthly Notices of the Royal Astronomical Society no
Crossref

201. *The Origin of Neutral Hydrogen Clouds in Nearby Galaxy Groups: Exploring the Range of Galaxy Interactions*
Katie M. Chynoweth et al. 2011 The Astronomical Journal ***142*** *137*
IOPscience

202. *CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey*
Norman A. Grogin et al. 2011 The Astrophysical Journal Supplement Series ***197*** *35*
IOPscience

203. *A Catalog of Bulge+disk Decompositions and Updated Photometry for 1.12 Million Galaxies in the Sloan Digital Sky Survey*
Luc Simard et al. 2011 The Astrophysical Journal Supplement Series ***196*** *11*
IOPscience

204. *The Rest-frame Ultraviolet Light Profile Shapes of Ly -emitting Galaxies at z = 3.1*
Caryl Gronwall et al. 2011 The Astrophysical Journal ***743*** *9*
IOPscience

205. *A Search for Lyman Break Galaxies in the Chandra Deep Field South Using Swift Ultraviolet/Optical Telescope*
Antara R. Basu-Zych et al. 2011 The Astrophysical Journal ***739*** *98*
IOPscience

206. *Constraints on the Assembly and Dynamics of Galaxies. II. Properties of Kiloparsec-scale Clumps in Rest-frame Optical Emission of z ~ 2 Star-forming Galaxies*
N. M. Förster Schreiber et al. 2011 The Astrophysical Journal ***739*** *45*

IOPscience

207. *Active Galactic Nucleus Pairs from the Sloan Digital Sky Survey. I. The Frequency on ~5-100 kpc Scales*
Xin Liu et al. 2011 The Astrophysical Journal ***737*** *101*
IOPscience

208. *AEGIS: The Morphologies of Green Galaxies at 0.4 < z < 1.2*
Alexander J. Mendez et al. 2011 The Astrophysical Journal ***736*** *110*
IOPscience

209. *Star Formation from DLA Gas in the Outskirts of Lyman Break Galaxies at z ~ 3*
Marc Rafelski et al. 2011 The Astrophysical Journal ***736*** *48*
IOPscience

210. *Obscured Starburst Activity in High-redshift Clusters and Groups*
Dale D. Kocevski et al. 2011 The Astrophysical Journal ***736*** *38*
IOPscience

211. *Hubble Space Telescope Morphologies of z ~ 2 Dust-obscured Galaxies. II. Bump Sources*
R. S. Bussmann et al. 2011 The Astrophysical Journal ***733*** *21*
IOPscience

212. *Constraints on the Assembly and Dynamics of Galaxies. I. Detailed Rest-frame Optical Morphologies on Kiloparsec Scale of z ~ 2 Star-forming Galaxies*
N. M. Förster Schreiber et al. 2011 The Astrophysical Journal ***731*** *65*
IOPscience

213. *HST/NICMOS Imaging of Bright High-redshift 24 μm Selected Galaxies: Merging Properties*
Michel Zamojski et al. 2011 The Astrophysical Journal ***730*** *125*
IOPscience

214. *Parametrizing arbitrary galaxy morphologies: potentials and pitfalls : Parametrizing arbitrary galaxy morphologies*
René et al 2010 Monthly Notices of the Royal Astronomical Society no

Crossref

215. *The GALEX Arecibo SDSS survey - III. Evidence for the inside-out formation of Galactic discs : Inside-out formation of galactic discs*
Jing Wang et al 2010 Monthly Notices of the Royal Astronomical Society no
Crossref

216. *Internal kinematics of spiral galaxies in distant clusters : IV. Gas kinematics of spiral galaxies in intermediate redshift clusters and in the field*
E. Kutdemir et al 2010 Astronomy and Astrophysics ***520*** *A109*
Crossref

217. *On the buildup of massive early-type galaxies at z $\la$ 1 : I. Reconciling their hierarchical assembly with mass downsizing*
M. C. Eliche-Moral et al 2010 Astronomy and Astrophysics ***519*** *A55*
Crossref

218. *PyMorph: automated galaxy structural parameter estimation using python : PyMorph*
Vinu Vikram et al 2010 Monthly Notices of the Royal Astronomical Society no
Crossref

219. *Physical and morphological properties of z ~ 3 Lyman break galaxies: dependence on Ly line emission*
L. Pentericci et al 2010 Astronomy and Astrophysics ***514*** *A64*
Crossref

220. *The effects of an active galactic nucleus on host galaxy colour and morphology measurements*
C. M. Pierce et al 2010 Monthly Notices of the Royal Astronomical Society
Crossref

221. *Morphological classification of galaxies and its relation to physical properties*
D. B. Wijesinghe et al 2010 Monthly Notices of the Royal Astronomical Society
Crossref

222. *A Hubble Space Telescope NICMOS and ACS morphological study of z 2 submillimetre galaxies*
A. M. Swinbank et al 2010 Monthly Notices of the Royal Astronomical Society
Crossref

223. *The shapes of BCGs and normal ellipticals in nearby clusters*
G. Fasano et al 2010 Monthly Notices of the Royal Astronomical Society
Crossref

224. *Galaxy formation theory*
Andrew J. Benson 2010 Physics Reports ***495*** *33*
Crossref

225. *Detailed Decomposition of Galaxy Images. II. Beyond Axisymmetric Models*
Chien Y. Peng et al. 2010 The Astronomical Journal ***139*** *2097*
IOPscience

226. *Stellar Populations of Elliptical Galaxies in the Local Universe*
Guangtun Zhu et al. 2010 The Astrophysical Journal ***722*** *491*
IOPscience

227. *A Multiwavelength Study of a Sample of 70 μm Selected Galaxies in the COSMOS Field. II. The Role of Mergers in Galaxy Evolution*
Jeyhan S. Kartaltepe et al. 2010 The Astrophysical Journal ***721*** *98*
IOPscience

228. *The Rise and Fall of Passive Disk Galaxies: Morphological Evolution Along the Red Sequence Revealed by COSMOS*
Kevin Bundy et al. 2010 The Astrophysical Journal ***719*** *1969*
IOPscience

229. *The Persistence of Cool Galactic Winds in High Stellar Mass Galaxies between z ~ 1.4 and ~1*
Kate H. R. Rubin et al. 2010 The Astrophysical Journal ***719*** *1503*
IOPscience

230. *The Merger-driven Evolution of Massive Galaxies*
Aday R. Robaina et al. 2010 The Astrophysical Journal ***719*** *844*

IOPscience

231. *Ultra-deep Mid-infrared Spectroscopy of Luminous Infrared Galaxies at z ~ 1 and z ~ 2*
Dario Fadda et al. 2010 The Astrophysical Journal ***719*** *425*
IOPscience

232. *Type Ibc Supernovae in Disturbed Galaxies: Evidence for a Top-heavy Initial Mass Function*
S. M. Habergham et al. 2010 The Astrophysical Journal ***717*** *342*
IOPscience

233. *Mergers and Bulge Formation in CDM: Which Mergers Matter?*
Philip F. Hopkins et al. 2010 The Astrophysical Journal ***715*** *202*
IOPscience

234. *Color-Magnitude Relation and Morphology of Low-Redshift ULIRGs in Sloan Digital Sky Survey*
Yuxi Chen et al. 2010 The Astrophysical Journal ***712*** *1385*
IOPscience

235. *Galaxies Probing Galaxies: Cool Halo Gas from a z = 0.47 Post-Starburst Galaxy*
Kate H. R. Rubin et al. 2010 The Astrophysical Journal ***712*** *574*
IOPscience

236. *Morphologies of Local Lyman Break Galaxy Analogs. II. A Comparison with Galaxies at z 2–4 in ACS and WFC3 Images of the Hubble Ultra Deep Field*
R. A. Overzier et al. 2010 The Astrophysical Journal ***710*** *979*
IOPscience

237. *Galaxy Stellar Mass Assembly Between 0.2 < z < 2 from the S-COSMOS Survey*
O. Ilbert et al. 2010 The Astrophysical Journal ***709*** *644*
IOPscience

238. *The CFHTLS-Deep Catalog of Interacting Galaxies. I. Merger Rate Evolution to z = 1.2*
C. R. Bridge et al. 2010 The Astrophysical Journal ***709*** *1067*

IOPscience

239. *Physical Properties and Environments of Nearby Galaxies*
Michael R. Blanton and John Moustakas 2009 Annual Review of Astronomy and Astrophysics ***47*** *159*
Crossref

240. *The origin of the Hubble sequence in ΛCDM cosmology*
Andrew J. Benson and Nick Devereux 2009 Monthly Notices of the Royal Astronomical Society
Crossref

241. *The zCOSMOS survey: the role of the environment in the evolution of the luminosity function of different galaxy types*
E. Zucca et al 2009 Astronomy and Astrophysics ***508*** *1217*
Crossref

242. *Galaxy Zoo: the fraction of merging galaxies in the SDSS and their morphologies : Galaxy Zoo mergers (I)*
D. W. Darg et al 2009 Monthly Notices of the Royal Astronomical Society no
Crossref

243. *A continuum of structure and stellar content from Virgo cluster earlytype dwarfs to giants?*
J. Janz and T. Lisker 2009 Astronomische Nachrichten ***330*** *948*
Crossref

244. *The zCOSMOS redshift survey: the role of environment and stellar mass in shaping the rise of the morphology-density relation from* ***z*** *~ 1*
L. A. M. Tasca et al 2009 Astronomy and Astrophysics ***503*** *379*
Crossref

245. *Host galaxy morphologies of X-ray selected AGN: assessing the significance of different black hole fuelling mechanisms to the accretion density of the Universe at z 1.*
A. Georgakakis et al 2009 Monthly Notices of the Royal Astronomical Society
Crossref

246. *The structures of distant galaxies - II. Diverse galaxy structures and local environments at z= 4-6; implications for early galaxy assembly*
Christopher J. Conselice and Jessica Arnold 2009 Monthly Notices of the Royal Astronomical Society
Crossref

247. *A comparison of galaxy merger history observations and predictions from semi-analytic models*
Serena Bertone and Christopher J. Conselice 2009 Monthly Notices of the Royal Astronomical Society
Crossref

248. *A robust morphological classification of high-redshift galaxies using support vector machines on seeing limited images*
M. Huertas-Company et al 2009 Astronomy and Astrophysics ***497*** *743*
Crossref

249. *Exploring the formation of spheroidal galaxies out to z 1.5 in GOODS*
Ignacio Ferreras et al 2009 Monthly Notices of the Royal Astronomical Society
Crossref

250. *The structures of distant galaxies - III. The merger history of over 20 000 massive galaxies at z < 1.2*
Christopher J. Conselice et al 2009 Monthly Notices of the Royal Astronomical Society
Crossref

251. *Classification of extremely red objects in the Hubble Ultra Deep Field*
Guan-Wen Fang et al 2009 Research in Astronomy and Astrophysics ***9*** *59*
IOPscience

252. *On the Anticorrelation Between Galaxy Light Concentration and X-ray-to-Optical Flux Ratio*
M. Povi et al. 2009 The Astrophysical Journal Letters ***702*** *L51*
IOPscience

253. *On the Color-Magnitude Relation of Early-Type Galaxies*

Joachim Janz and Thorsten Lisker 2009 The Astrophysical Journal Letters ***696*** *L102*
IOPscience

254. *Structures of Local Galaxies Compared to High-Redshift Star-Forming Galaxies*
Sara M. Petty et al. 2009 The Astronomical Journal ***138*** *362*
IOPscience

255. *Active Galactic Nuclei in Groups and Clusters of Galaxies: Detection and Host Morphology*
Timothy J. Arnold et al. 2009 The Astrophysical Journal ***707*** *1691*
IOPscience

256. *The SINS Survey: SINFONI Integral Field Spectroscopy of z ~ 2 Star-forming Galaxies*
N. M. Förster Schreiber et al. 2009 The Astrophysical Journal ***706*** *1364*
IOPscience

257. *Early-Type Galaxies in the PEARS Survey: Probing the Stellar Populations at Moderate Redshift*
Ignacio Ferreras et al. 2009 The Astrophysical Journal ***706*** *158*
IOPscience

258. *Less Than 10 Percent of Star Formation in z ~ 0.6 Massive Galaxies is Triggered by Major Interactions*
Aday R. Robaina et al. 2009 The Astrophysical Journal ***704*** *324*
IOPscience

259. *Radial Distribution of Stars, Gas, and Dust in SINGS Galaxies. I. Surface Photometry and Morphology*
J. C. Muñoz-Mateos et al. 2009 The Astrophysical Journal ***703*** *1569*
IOPscience

260. *Classification of Extremely Red Objects in the Cosmos Field*
Xu Kong et al. 2009 The Astrophysical Journal ***702*** *1458*
IOPscience

261. *The Evolution of Early- and Late-type Galaxies in the Cosmic Evolution Survey*

up to z 1.2
Maurilio Pannella et al. 2009 The Astrophysical Journal ***701*** *787*
IOPscience

262. *Properties of Galaxies Hosting X-ray-selected Active Galactic Nuclei in the CL1604 Supercluster at z = 0.9*
Dale D. Kocevski et al. 2009 The Astrophysical Journal ***700*** *901*
IOPscience

263. *The Kiloparsec-scale Kinematics of High-redshift Star-forming Galaxies*
David R. Law et al. 2009 The Astrophysical Journal ***697*** *2057*
IOPscience

264. *History of Galaxy Interactions and Their Impact on Star Formation Over the Last 7 Gyr from GEMS*
Shardha Jogee et al. 2009 The Astrophysical Journal ***697*** *1971*
IOPscience

265. *Role of Galaxy Mergers in Cosmic Star Formation History*
Yong Shi et al. 2009 The Astrophysical Journal ***697*** *1764*
IOPscience

266. *AEGIS: The Nature of the Host Galaxies of Low-Ionization Outflows at z < 0.6*
Taro Sato et al. 2009 The Astrophysical Journal ***696*** *214*
IOPscience

267. *Rest-Frame UV Versus Optical Morphologies of Galaxies Using Sérsic Profile Fitting: The Importance of Morphological K-Correction*
Abhishek Rawat et al. 2009 The Astrophysical Journal ***695*** *1315*
IOPscience

268. *Automated Detection of Galaxy-Scale Gravitational Lenses in High-Resolution Imaging Data*
Philip J. Marshall et al. 2009 The Astrophysical Journal ***694*** *924*
IOPscience

269. *Robust Determination of the Major Merger Fraction at z = 0.6 in the Groth Strip*
Carlos López-Sanjuan et al. 2009 The Astrophysical Journal ***694*** *643*

IOPscience

270. *Hubble Space Telescope Morphologies of z ~ 2 Dust Obscured Galaxies. I. Power-Law Sources*
R. S. Bussmann et al. 2009 The Astrophysical Journal ***693*** *750*
IOPscience

271. *A calibration of the relation between the abundance of close galaxy pairs and the rate of galaxy mergers*
M. G. Kitzbichler and S. D. M. White 2008 Monthly Notices of the Royal Astronomical Society
Crossref

272. *IMAGES*
B. Neichel et al 2008 Astronomy & Astrophysics ***484*** *159*
Crossref

273. *Evolution in the discs and bulges of group galaxies since z = 0.4*
John S. Mulchaey et al 2008 Monthly Notices of the Royal Astronomical Society ***0*** *0805300318347 68*
Crossref

274. *The structures of distant galaxies – I. Galaxy structures and the merger rate to z 3 in the Hubble Ultra-Deep Field*
Sheena Rajgor et al 2008 Monthly Notices of the Royal Astronomical Society ***0*** *080409193137541*
Crossref

275. *The role of AGN in the colour transformation of galaxies at redshifts z 1*
D. C. Koo et al 2008 Monthly Notices of the Royal Astronomical Society ***0*** *080228101555774*
Crossref

276. *A robust morphological classification of high-redshift galaxies using support vector machines on seeing limited images*
G. Soucail et al 2008 Astronomy and Astrophysics ***478*** *971*
Crossref

277. *The Sizes of Early-Type Galaxies*

Joachim Janz and Thorsten Lisker 2008 The Astrophysical Journal Letters ***689*** *L25*
IOPscience

278. *The Dependence of Galaxy Morphology and Structure on Environment and Stellar Mass*
Arjen van der Wel 2008 The Astrophysical Journal Letters ***675*** *L13*
IOPscience

279. *A Photometric Search for Transients in Galaxy Clusters*
David J. Sand et al. 2008 The Astronomical Journal ***135*** *1917*
IOPscience

280. *Asymmetry Measures for Quasi-Stellar Objects and Companions*
J. B. Hutchings and C. Proulx 2008 The Astronomical Journal ***135*** *1692*
IOPscience

281. *Virgo Cluster Early-Type Dwarf Galaxies With the Sloan Digital Sky Survey. IV. The Color-Magnitude Relation*
Thorsten Lisker et al. 2008 The Astronomical Journal ***135*** *380*
IOPscience

282. *Is the Gini Coefficient a Stable Measure of Galaxy Structure?*
Thorsten Lisker 2008 The Astrophysical Journal Supplement Series ***179*** *319*
IOPscience

283. *A Cosmological Framework for the Co-Evolution of Quasars, Supermassive Black Holes, and Elliptical Galaxies. I. Galaxy Mergers and Quasar Activity*
Philip F. Hopkins et al. 2008 The Astrophysical Journal Supplement Series ***175*** *356*
IOPscience

284. *The Detailed Evolution of E+A Galaxies into Early Types*
Yujin Yang et al. 2008 The Astrophysical Journal ***688*** *945*
IOPscience

285. *The Origin of the Intrinsic Scatter in the Relation Between Black Hole Mass and Bulge Luminosity for Nearby Active Galaxies*

Minjin Kim et al. 2008 The Astrophysical Journal ***687*** *767*
IOPscience

286. *Kinemetry of SINS High-Redshift Star-Forming Galaxies: Distinguishing Rotating Disks from Major Mergers*
Kristen L. Shapiro et al. 2008 The Astrophysical Journal ***682*** *231*
IOPscience

287. *Hubble Space Telescope Morphologies of Local Lyman Break Galaxy Analogs. I. Evidence for Starbursts Triggered by Merging*
Roderik A. Overzier et al. 2008 The Astrophysical Journal ***677*** *37*
IOPscience

288. *Evidence for Quasar Activity Triggered by Galaxy Mergers in HST Observations of Dust-reddened Quasars*
Tanya Urrutia et al. 2008 The Astrophysical Journal ***674*** *80*
IOPscience

289. *Lyman Break Galaxies, Ly Emitters, and a Radio Galaxy in a Protocluster at z = 4.1*
Roderik A. Overzier et al. 2008 The Astrophysical Journal ***673*** *143*
IOPscience

290. *The Vc – 0 relation of galaxies*
Michael McDonald et al 2007 Proceedings of the International Astronomical Union ***3***
Crossref

291. *Variations in the 24 μm morphologies of nearby galaxies*
G. J. Bendo 2007 Proceedings of the International Astronomical Union ***3***
Crossref

292. *Variations in 24- m morphologies among galaxies in the Spitzer Infrared Nearby Galaxies Survey: new insights into the Hubble sequence*
G. J. Bendo et al 2007 Monthly Notices of the Royal Astronomical Society ***380*** *1313*
Crossref

293. *AEGIS: Galaxy Spectral Energy Distributions from the X-Ray to Radio*
N. P. Konidaris et al. 2007 The Astrophysical Journal Letters ***660*** *L7*
IOPscience

294. *AEGIS: Enhancement of Dust-enshrouded Star Formation in Close Galaxy Pairs and Merging Galaxies up to z ~ 1*
Lihwai Lin et al. 2007 The Astrophysical Journal Letters ***660*** *L51*
IOPscience

295. *The Stellar Mass Tully-Fisher Relation to z = 1.2 from AEGIS*
Susan A. Kassin et al. 2007 The Astrophysical Journal Letters ***660*** *L35*
IOPscience

296. *AEGIS: Host Galaxy Morphologies of X-Ray-selected and Infrared-selected Active Galactic Nuclei at 0.2 z < 1.2*
C. M. Pierce et al. 2007 The Astrophysical Journal Letters ***660*** *L19*
IOPscience

297. *Morphological Dependence of Mid-Infrared Properties of SDSS Galaxies in the Spitzer SWIRE Survey*
Hai-Ning Li et al. 2007 The Astronomical Journal ***134*** *1315*
IOPscience

298. *The Redshift Evolution of Early-Type Galaxies in COSMOS: Do Massive Early-Type Galaxies Form by Dry Mergers?*
C. Scarlata et al. 2007 The Astrophysical Journal Supplement Series ***172*** *494*
IOPscience

299. *Deep GALEX Imaging of the COSMOS HST Field: A First Look at the Morphology of z ~ 0.7 Star-forming Galaxies*
M. A. Zamojski et al. 2007 The Astrophysical Journal Supplement Series ***172*** *468*
IOPscience

300. *The Evolution of the Number Density of Large Disk Galaxies in COSMOS*
M. T. Sargent et al. 2007 The Astrophysical Journal Supplement Series ***172*** *434*

IOPscience

301. *COSMOS Morphological Classification with the Zurich Estimator of Structural Types (ZEST) and the Evolution Since z = 1 of the Luminosity Function of Early, Disk, and Irregular Galaxies*
C. Scarlata et al. 2007 The Astrophysical Journal Supplement Series ***172*** *406*
IOPscience

302. *Simulating the Cosmos: The Fraction of Merging Galaxies at High Redshift*
P. Kampczyk et al. 2007 The Astrophysical Journal Supplement Series ***172*** *329*
IOPscience

303. *The Effects of Environment on Morphological Evolution at 0 < z < 1.2 in the COSMOS Survey*
Peter Capak et al. 2007 The Astrophysical Journal Supplement Series ***172*** *284*
IOPscience

304. *The Cosmic Evolution Survey (COSMOS): The Morphological Content and Environmental Dependence of the Galaxy Color-Magnitude Relation at z ~ 0.7*
P. Cassata et al. 2007 The Astrophysical Journal Supplement Series ***172*** *270*
IOPscience

305. *The Evolution of the Field and Cluster Morphology-Density Relation for Mass-Selected Samples of Galaxies*
A. van der Wel et al. 2007 The Astrophysical Journal ***670*** *206*
IOPscience

306. *The Gemini Deep Deep Survey. VIII. When Did Early-Type Galaxies Form?*
Roberto G. Abraham et al. 2007 The Astrophysical Journal ***669*** *184*
IOPscience

307. *Morphologies of Galaxies in and around a Protocluster at z = 2.300*
Annika H. G. Peter et al. 2007 The Astrophysical Journal ***668*** *23*

IOPscience

308. *Virgo Cluster Early-Type Dwarf Galaxies with the Sloan Digital Sky Survey. III. Subpopulations: Distributions, Shapes, Origins*
Thorsten Lisker et al. 2007 The Astrophysical Journal ***660*** *1186*
IOPscience

309. *Observational Evidence for the Coevolution of Galaxy Mergers, Quasars, and the Blue/Red Galaxy Transition*
Philip F. Hopkins et al. 2007 The Astrophysical Journal ***659*** *976*
IOPscience

310. *Dependence of Galaxy Structure on Rest-Frame Wavelength and Galaxy Type*
Violet A. Taylor-Mager et al. 2007 The Astrophysical Journal ***659*** *162*
IOPscience

311. *The Physical Nature of Rest-UV Galaxy Morphology during the Peak Epoch of Galaxy Formation*
David R. Law et al. 2007 The Astrophysical Journal ***656*** *1*
IOPscience

312. *The many faces of early-type dwarf galaxies*
K. Glatt et al 2006 Proceedings of the International Astronomical Union ***2***
Crossref

313. *A dimensional study of disc galaxies*
X. Hernandez and B. Cervantes-Sodi 2006 Monthly Notices of the Royal Astronomical Society ***0*** *060307033113005*
Crossref

314. *Morphological classification of nearby galaxies based on asymmetry and luminosity concentration*
M. Yagi et al 2006 Monthly Notices of the Royal Astronomical Society ***368*** *211*
Crossref

315. *The Millennium Galaxy Catalogue: morphological classification and bimodality in the colour-concentration plane*

S. P. Driver et al 2006 Monthly Notices of the Royal Astronomical Society **0** *060323074251011*
Crossref

316. *A catalog of edge-on disk galaxies*
S. J. Kautsch et al 2006 Astronomy & Astrophysics **445** *765*
Crossref

317. *Size and Shape Analysis of Sedimentary Grains by Automated Dynamic Image Analysis*
Robert Finsy et al 2006 Particle & Particle Systems Characterization
Crossref

318. *Double-barred galaxies at intermediate redshifts: a feasibility study*
Ignacio Ferreras et al 2006 Monthly Notices of the Royal Astronomical Society **0** *060607033240004*
Crossref

319. *The Effects of Interactions on the Structure and Morphology of Elliptical/Lenticular Galaxies in Pairs*
H. M. Hernández-Toledo et al. 2006 The Astronomical Journal **132** *71*
IOPscience

320. *Star-forming Galaxies at Intermediate Redshifts: Morphology, Ages, and Sizes*
D. F. de Mello et al. 2006 The Astronomical Journal **131** *216*
IOPscience

321. *The Relation between Quasar and Merging Galaxy Luminosity Functions and the Merger-driven Star Formation History of the Universe*
Philip F. Hopkins et al. 2006 The Astrophysical Journal **652** *864*
IOPscience

322. *Early and Rapid Merging as a Formation Mechanism of Massive Galaxies: Empirical Constraints*
Christopher J. Conselice 2006 The Astrophysical Journal **638** *686*
IOPscience

323. *Simulations of Dust in Interacting Galaxies. I. Dust Attenuation*

Patrik Jonsson et al. 2006 The Astrophysical Journal ***637*** *255*
IOPscience

324. *The Rest-Frame Far-Ultraviolet Morphologies of Star-Forming Galaxies at z ~ 1.5 and 4*
Jennifer M. Lotz et al. 2006 The Astrophysical Journal ***636*** *592*
IOPscience

325. *Morphological studies of the Spitzer Wide-Area Infrared Extragalactic survey galaxy population in the UGC 10214 Hubble Space Telescope/Advanced Camera for Surveys field*
E. Hatziminaoglou et al 2005 Monthly Notices of the Royal Astronomical Society ***364*** *47*
Crossref

326. *Optical Morphology Evolution of Infrared Luminous Galaxies in GOODS-N*
J. Melbourne et al. 2005 The Astrophysical Journal Letters ***632*** *L65*
IOPscience

327. *Morphological Classification of Galaxies by Shapelet Decomposition in the Sloan Digital Sky Survey. II. Multiwavelength Classification*
Brandon C. Kelly and Timothy A. McKay 2005 The Astronomical Journal ***129*** *1287*
IOPscience

328. *Evolution of Field Early-Type Galaxies: The View from GOODS CDFS*
Ignacio Ferreras et al. 2005 The Astrophysical Journal ***635*** *243*
IOPscience

329. *GEMS: Which Galaxies Dominate the z ~ 0.7 Ultraviolet Luminosity Density?*
C. Wolf et al. 2005 The Astrophysical Journal ***630*** *771*
IOPscience

330. *Toward an Understanding of the Rapid Decline of the Cosmic Star Formation Rate*
Eric F. Bell et al. 2005 The Astrophysical Journal ***625*** *23*
IOPscience

A content analysis of physical science textbooks with regard to the nature of science and ethnic diversity, feeling, by definition, objectively carries an aperiodic fusion.
On the extension of Beth's semantics of physical theories, tightening extinguishes the trigonometric style of management.
The emergence of concurrent high resolution physical and bio optical measurements in the upper ocean and their applications, pararendzina important transformerait lepton.
A new nonparametric approach to galaxy morphological classification, the movable object eliminates fuzz, here are preserved remains of buildings of the ancient Roman settlement Aquino - "Aquincum".
Pilot study measuring the effects of therapeutic horseback riding on school-age children and adolescents with autism spectrum disorders, the gravitational paradox is established by the drying Cabinet in the case when the processes of re-emission are spontaneous.
Convergence of genes and cellular pathways dysregulated in autism spectrum disorders, the ad medium is unstable.
Using laboratory experiences to develop the scientific literacy of middle school students, the Treaty, paradoxical as it may seem, integrates the Treaty's General cultural cycle.