

Publications

1. “The effects of galaxy mass ratio on merger-driven starbursts,” **Cox, T.J.**, Jonsson, P., Primack, J.R., Somerville, R., Dekel, A., 2007, MNRAS, submitted
2. “Starburst and AGN Driven Winds in Galaxy Mergers,” **Cox, T.J.**, Chakrabarti, S., Di Matteo, T., Krause, E., Hernquist, L., Hopkins, P. F., Li, Y., Robertson, B., Springel, V., 2007, ApJ, submitted
3. “A Merger-Driven Model for Submillimeter Galaxies,” Chakrabarti, S., Fenner, Y., Hernquist, L., **Cox, T.J.**, Hopkins, P. F., 2007, ApJ, submitted
4. “The Co-Formation of Spheroids and Quasars Traced in their Clustering,” Hopkins, P.F., Lidz, A., Hernquist, L., Coil, A.L., Myers, A.D., **Cox, T.J.**, Spergel, D.N., 2007, ApJ, submitted
5. “The Nature of CO Emission from $z \sim 6$ Quasars,” Narayanan, D., Li, Y., **Cox, T.J.**, Hernquist, L., Hopkins, P.F., Chakrabarti, S., Dav R., Di Matteo, T., Gao, L., Kulesa C., Robertson, B., Springel, V., Walker C. K., 2007, ApJ, submitted
6. “Formation of $z \sim 6$ Quasars from Hierarchical Galaxy Mergers,” Li, Y., Hernquist, L., Robertson, B., **Cox, T.J.**, Hopkins, P.F., Springel, V., Gao, L., Di Matteo, T., Zentner, A.R., Jenkins, A., Yoshida, N., 2006, ApJ, submitted
7. “The effects of feedback in simulations of disk-galaxy major mergers,” **Cox, T.J.**, Jonsson, P., Primack, J.R., Somerville, R., 2006, MNRAS, in press
8. “Feedback-Driven Evolution of the Far-Infrared Spectral Energy Distributions of Luminous and Ultraluminous Infrared Galaxies,” Chakrabarti, S., **Cox, T.J.**, Hernquist, L., Hopkins, P. F., Robertson, B., Di Matteo, T., 2006, ApJ, in press
9. “An Upper Limit to the Degree of Evolution Between Supermassive Black Holes and their Host Galaxies,” Hopkins, P. F., Robertson, B., Krause E., Hernquist, L., **Cox, T.J.**, 2006, ApJ, in press
10. “The Relation Between Quasar and Merging Galaxy Luminosity Functions and the Merger-Induced Star Formation Rate of the Universe,” Hopkins, P. F., Somerville, R., Hernquist, L., **Cox, T.J.**, Robertson, B., Li, Y., 2006, ApJ, in press
11. “The Kinematic Structure of Merger Remnants,” **Cox, T.J.**, Dutta, S., Di Matteo, T., Hernquist, L., Hopkins, P. F., Robertson, B., Springel, V., 2006, ApJ, 650, 791
12. “The dissipative merger progenitors of elliptical galaxies,” Dekel, A., **Cox, T.J.**, 2006, MNRAS, 370, 1445
13. “Shapes of Stellar Systems and Dark Halos from Simulations of Galaxy Major Mergers,” Novak, G., **Cox, T.J.**, Primack, J.R., Jonsson P., Dekel, A., 2006, ApJL, 646, L9
14. “A Merger-Driven Scenario for Cosmological Disk Galaxy Formation,” Robertson, B., Hernquist, L., Bullock J. S., **Cox, T.J.**, Di Matteo, T., Springel, V., Yoshida N., 2006, ApJ, 645, 986
15. “X-Ray Emission from Hot Gas in Galaxy Mergers,” **Cox, T.J.**, Di Matteo, T., Hernquist, L., Hopkins, P. F., Robertson, B., Springel, V., 2006, ApJ, 643, 692
16. “Molecular Outflows in Galaxy Merger Simulations with Embedded Active Galactic Nuclei,” Narayanan D., **Cox, T.J.**, Robertson, B., Dav R., Di Matteo, T., Hernquist, L., Hopkins, P.F., Kulesa C., Walker C. K., 2006, ApJL, 641, L107
17. “Simulations of strong gravitational lensing with substructure,” Amara A., Metcalf R. B., **Cox, T.J.**, Ostriker J. P., 2006, MNRAS, 367, 1367

18. "The Evolution of the MBH-Sigma Relation," Robertson, B., Hernquist, L., **Cox, T.J.**, Di Matteo, T., Hopkins, P. F., Martini P., Springel, V., 2006, ApJ, 641, 90
19. "The Luminosity Dependence of Quasar Clustering," Lidz, A., Hopkins, P. F., **Cox, T.J.**, Hernquist, L., Robertson, B., 2006, ApJ, 641, 41
20. "The Fundamental Scaling Relations of Elliptical Galaxies," Robertson, B., **Cox, T.J.**, Hernquist, L., Franx M., Hopkins, P. F., Martini P., Springel, V., 2006, ApJ, 641, 21
21. "Determining the Properties and Evolution of Red Galaxies from the Quasar Luminosity Function," Hopkins, P. F., Hernquist, L., **Cox, T.J.**, Robertson, B., Springel, V., 2006, ApJS, 163, 50
22. "A Unified, Merger-driven Model of the Origin of Starbursts, Quasars, the Cosmic X-Ray Background, Supermassive Black Holes, and Galaxy Spheroids," Hopkins, P. F., Hernquist, L., **Cox, T.J.**, Di Matteo, T., Robertson, B., Springel, V., 2006, ApJS, 163, 1
23. "The Evolution in the Faint-End Slope of the Quasar Luminosity Function," Hopkins, P. F., Hernquist, L., **Cox, T.J.**, Robertson, B., Di Matteo, T., Springel, V., 2006, ApJ, 639, 700
24. "Simulations of Dust in Interacting Galaxies. I. Dust Attenuation," Jonsson P., **Cox, T.J.**, Primack, J.R., Somerville, R.S., 2005, ApJ, 637, 255
25. "Luminosity-dependent Quasar Lifetimes: Reconciling the Optical and X-Ray Quasar Luminosity Functions," Hopkins, P. F., Hernquist, L., **Cox, T.J.**, Di Matteo, T., Robertson, B., Springel, V., 2005, ApJ, 632, 81
26. "Lost and found dark matter in elliptical galaxies," Dekel, A., Stoehr F., Mamon G.A., **Cox, T.J.**, Novak, G.S., Primack, J.R., 2005, Nature, 437, 707
27. "Luminosity-dependent Quasar Lifetimes: A New Interpretation of the Quasar Luminosity Function," Hopkins, P. F., Hernquist, L., **Cox, T.J.**, Robertson, B., Di Matteo, T., Springel, V., 2005, ApJ, 630, 716
28. "Black Holes in Galaxy Mergers: Evolution of Quasars," Hopkins, P. F., Hernquist, L., **Cox, T.J.**, Di Matteo, T., Martini P, Robertson, B., Springel, V., 2005, ApJ, 630, 705
29. "A Physical Model for the Origin of Quasar Lifetimes," Hopkins, P. F., Hernquist, L., Martini P., **Cox, T.J.**, Robertson, B., Di Matteo, T., Springel, V., 2005, ApJL, 625, L71
30. "Generating Hot Gas in Simulations of Disk-Galaxy Major Mergers," **Cox, T.J.**, Primack, J.R., Jonsson, P., Somerville, R.S., ApJ, 607, 87L
31. "Mössbauer Effect Study of Metal Particle Tape Stability," Parker, F.T., Spada, F.E., **Cox, T.J.**, Berkowitz, A.E., 1996, JMMM, 162, 122
32. "Spin-glass behavior of spinel iron oxide particles on iron metal particle recording media," Parker, F.T., Spada, F.E., **Cox, T.J.**, Berkowitz, A.E., 1995 J.Appl.Phys., 77, 5853
33. "Hc enhancement of Co-adsorbed -Fe2O3 particles via surface treatment with sodium polyphosphate," Spada, F.E., Parker, F.T., Berkowitz, A.E., **Cox, T.J.**, 1994, J.Appl.Phys., 75, 5562