

Publication List, Benjamin Darwin Oppenheimer

First Author Refereed Publications

- “*Feedback and Recycled Wind Accretion: Assembling the $z=0$ Galaxy Mass Function*”
Oppenheimer, B. D. & Davé, R., Kereš, D., Fardal, M., Katz, N., Kollmeier, J. A., & Weinberg, D. H. 2010, MNRAS, 406, 2325
- “*Tracing Reionization-Epoch Intergalactic Medium with Metal Absorption Lines*”
Oppenheimer, B. D., Davé, R., & Finlator, K. 2009, MNRAS, 396, 729
- “*The Nature and Origin of Low-Redshift O VI Absorbers*”
Oppenheimer, B. D. & Davé, R. 2009, MNRAS, 395, 1875
- “*Mass, Metal, and Energy Feedback in Cosmological Simulations*”
Oppenheimer, B. D. & Davé, R. 2008, MNRAS, 387, 587
- “*Cosmological Simulations of Intergalactic Medium Enrichment from Galactic Outflows*”
Oppenheimer, B. D. & Davé, R. A. 2006, MNRAS, 373, 1265
- “*Spectropolarimetry and Radiative Transfer Modeling of Three Proto-Planetary Nebulae*”
Oppenheimer, B. D., Biegging, J. H., Schmidt, G. D., Gordon, K. D., Misselt, K. A., & Smith, P. S. 2005, ApJ, 624, 957
- “*An Analysis of AAVSO Observations of Z Camelopardalis*”
Oppenheimer, B. D., Kenyon, S. J., & Mattei, J. A. 1998, AJ, 115, 1175
- “*Analysis of Long-Term AAVSO Observations of RS Ophiuchi*”
Oppenheimer, B. D. & Mattei, Janet A. 1993, JAVSO, 22, 105

Other Refereed Publications

- “*Smoothly rising star formation histories during the reionization epoch*”
Finlator, K., **Oppenheimer, B. D.**, & Davé, R., 2010, MNRAS, accepted
- “*The intergalactic medium over the last 10 billion years - I. Ly α absorption and physical conditions*”
Davé, R., **Oppenheimer, B. D.**, Katz, N., Kollmeier, J. A., & Weinberg, D. H. 2010, MNRAS, accepted
- “*The nature of submillimetre galaxies in cosmological hydrodynamic simulations*”
Davé, R., Finlator, K., & **Oppenheimer, B. D.**, Fardal, M., Katz, N., Kereš, D., & Weinberg, D. H. 2010, MNRAS, 404, 1355
- “*How is star formation quenched in massive galaxies?*”
Gabor, J. M., Davé, R., Finlator, K., & **Oppenheimer, B. D.** 2010, MNRAS, 407, 749
- “*The late reionization of filaments*”
Finlator, K., Özel, F., Davé, R., & **Oppenheimer, B. D.**, 2009, MNRAS, 400, 1049

- “*The simulated HI sky at low redshift*”
Popping, A., Davé, R., Braun, R., & **Oppenheimer, B. D.**, 2009, A&A, 504, 15
- “*Enrichment and Pre-Heating in Intragroup Gas from Galactic Outflows*”
Davé, R., **Oppenheimer, B. D.**, & Sivanandam, S. 2008, MNRAS, 391, 110
- “*The Flux Auto- and Cross-Correlation of the Ly α Forest. II. Modeling Anisotropies with Cosmological Hydrodynamic Simulations*”
Marble, A. R., Eriksen, K. A., Impey, C. D., **Oppenheimer, B. D.**, & Davé, R. 2008, ApJ, 675, 946
- “*Constraints on Physical Properties of $z \sim 6$ Galaxies Using Cosmological Hydrodynamic Simulations*”
Finlator, K., Davé, R., & **Oppenheimer, B. D.** 2007, MNRAS, 376, 1861
- “*The Enrichment History of Baryons in the Universe*”
Davé, R. & **Oppenheimer, B. D.** 2007, MNRAS, 374, 427
- “*The Physical Properties and Detectability of Reionization-Epoch Galaxies*”
Davé, R., Finlator, K., & **Oppenheimer, B. D.** 2006, MNRAS, 370, 273
- “*NICMOS2 Hubble Space Telescope Observations of the Embedded Cluster Associated with Mon R2: Constraining the Substellar Initial Mass Function*”
Andersen, M., Meyer, M. R., **Oppenheimer, B.**, Dougados, C., & Carpenter, J. 2006, AJ, 132, 2296
- “*Optical Spectropolarimetry of Asymptotic Giant Branch and Post-Asymptotic Giant Branch Stars*”
Biegging, J. H., Schmidt, G. D., Smith, P. S., & **Oppenheimer, B. D.**, 2006, ApJ, 639, 1053
- “*A Search for Substellar Companions around 15 Weak-Lined T Tauri Stars with the Planetary Camera 2 of the Hubble Space Telescope*”
Massarotti, A., Latham, D. W.; Torres, G., Brown, R. A., & **Oppenheimer, B. D.** 2005, AJ, 129, 2294
- “*The Approaching Death of the OH/IR star IRAS 18455+0448*”
Lewis, B. M., **Oppenheimer, B. D.**, & Daubar, I. J. 2001, ApJ, 548, 77

Submitted and Planned Publications Over the Next Year

- “*The intergalactic medium over the last 10 billion years - II. Metal-Line Absorption and Physical Conditions*”
Oppenheimer, B. D., Davé, R., Katz, N., Kollmeier, J. A., & Weinberg, D. H. to be submitted to MNRAS before end of 2010
- “*The Evolution of the Stellar, Metal, and Gas Content of Galaxies in Cosmological Simulations with Outflows*”
Davé, R., Finlator, K., & **Oppenheimer, B. D.** to be submitted to MNRAS before end of 2010

- “*Short-lived Star-forming Giant Clumps in Cosmological Simulations of $z = 2$ Disks*”
Genel, S., Naab, T., Genzel, R., Förster Schreiber, N. M., Sternberg, A., Oser, L., Davé, R., **Oppenheimer, B. D.** to be submitted to ApJ Letters before end of 2010
- “*Galactic outflows and the kinematics of damped Lyman alpha absorbers*”
Hong, S., Katz, N., Davé, R., Fardal, M., Kereš, D., & **Oppenheimer, B. D.** 2010, MNRAS submitted, arXiv:1008.4242
- “*Intergalactic Dust Extinction in Hydrodynamic Cosmological Simulations*”
Zu, Y., Weinberg, D. H.; Davé, R., Fardal, M., Katz, N., Kereš, D., & **Oppenheimer, B. D.** 2010, MNRAS submitted, arXiv:1005.4406
- “*The intergalactic medium over the last 10 billion years - III. Galaxy-IGM Absorption Cross-Correlations*”
Kollmeier, J. A., Davé, R., **Oppenheimer, B. D.**, Katz, N., & Weinberg, D. H. in preparation
- “*Building the Massive Red Sequence with Hydrodynamical Simulations*”
Gabor, J. M., Davé, R., Finlator, K., & **Oppenheimer, B. D.** in preparation
- “*Subhalo Abundance Matching in Cosmological SPH Simulations*” Simha, V., Weinberg, D. H., Davé, R., Fardal, M., Katz, N., & **Oppenheimer, B. D.** in preparation
- “*Non-Equilibrium Ionization and Cooling in the Intergalactic Medium*”
Oppenheimer, B. D. & Schaye, J., aim to submit in latter half of 2011

Selected First Author Conference Proceedings and Abstracts

- INVITED REVIEW: “*Implementation of Galactic Winds in Hydrodynamical Simulations*”
Oppenheimer, B. D. H-Metal Workshop, El Escorial, Spain, September 2010
- INVITED TALK: “*Chemically Enriching the Reionization-Epoch IGM: What, When, & How?*”
Oppenheimer, B. D. Cosmological Re-Ionization, Allahabad, India, February 2010
- INVITED TALK: “*Recycling Baryons in Galactic Outflows: Don’t We Have Enough Already?*”
Oppenheimer, B. D. Missing, Baryons, and Feedback in Galaxies, Sydney, Australia, December 2009
- TALK: “*The history of enrichment of the IGM using cosmological simulations*” **Oppenheimer, B. D.** The Chemical Enrichment of the Intergalactic Medium, Leiden, The Netherlands, May 2009
- TALK: “*The History of Enrichment of the Intergalactic Medium*”
Oppenheimer, B. D. The Cosmic Odyssey of the Elements, Aegina, Greece, June 2008
- TALK: “*When Does the Intergalactic Medium Become Enriched?*”
Oppenheimer, B. D., Davé, R., & Finlator, K. 2007, EAS, 24, 157
CRAL-2006. Chemodynamics: From First Stars to Local Galaxies, Lyon, France, July 2006

- POSTER: “*The Nature and Evolution of Galactic Feedback Using the Intergalactic Medium*”
Oppenheimer, B. D. & Davé, R.
Galaxy Growth in a Dark Universe, Heidelberg, Germany, July 2007
- POSTER: “*Feedback in Cosmological Hydrodynamic Simulations: IGM Metallicity Evolution Between $z=1.5-6.0$* ”
Oppenheimer, B. D. & Davé, R.
Mass, Light and Chemistry Workshop, Minneapolis, Minnesota, October 2005
- POSTER: “*Cosmological Simulations of Metallicity Enrichment in the Intergalactic Medium*”
Oppenheimer, B. D., Davé, R., Springel, V., & Hernquist, L. 2004, BAAS, 36, 1590
205th AAS Meeting, San Diego, California, January 2005
- POSTER: “*Spectropolarimetry of Proto-Planetary Nebulae and AGB Stars*”
Oppenheimer, B. D., Biegging, J. H., Schmidt, G. D., Gordon, K. D., & Misselt, K. A. 2004, ASPC, 313, 34
Asymmetrical Planetary Nebulae III, Mt. Rainier, Washington, July 2003
- POSTER: “*Spectropolarimetric Study of Circumstellar Dust around AGB Stars and Proto-Planetary Nebulae*”
Oppenheimer, B. D., Biegging, J. H., Schmidt, G. D., Gordon, K. D., & Misselt, K. A. 2004, ASPC, 313, 34
Astrophysics of Dust, Estes Park, Colorado, May 2003
- POSTER: “*A Selected Survey of Main-Line OH/IR Stars with the Arecibo Dish*”
Oppenheimer, B. D., & Daubar, I. J. 1998, BAAS, 30, 1349
193rd AAS Meeting, Austin, Texas, January 1999