

Desika Narayanan

Harvard-Smithsonian Center for Astrophysics
60 Garden St. MS 51, Cambridge, Ma 02138
dnarayanan@cfa.harvard.edu
<http://www.cfa.harvard.edu/dnarayan/>

Current Position CfA Postdoctoral Fellow, Harvard-Smithsonian Center for Astrophysics

Education

2008 Ph.D Astronomy University of Arizona
2003 B.S. Physics, High Honors University of Florida
2003 B.S. Astronomy, Highest Honors University of Florida

Prior Appointments

Research Assistant (Ph.D Thesis) Prof. Christopher Walker, University of Arizona 8/03-01/08
Research Assistant Prof. Fred Hamann, University of Florida 08/99-06/03

Awards

2008 CfA Postdoctoral Fellowship
2004-2007 NSF Graduate Research Fellow
1998-2003 University of Florida National Merit Scholarship
1998 National Merit Scholarship Finalist
1998-2003 Florida Bright Futures Scholarship

Publication List

Refereed Lead Author Publications

1. *The Star-Forming Molecular Gas in High Redshift Submillimeter Galaxies*, Narayanan, D., Cox, T.J., Hayward, C., Younger, J., Hernquist, L., MNRAS, in press, arXiv:0905.2184
2. *The Formation of High Redshift Submillimeter Galaxies*, Narayanan, D., Hayward, C., Cox, T.J., Hernquist, L., Jonsson, P., Younger, J., Groves, B., MNRAS Letters, in press, arXiv:0904.0004
3. *The Star Formation-Rate-Dense Gas Relation in the Nuclei of Nearby Galaxies* Narayanan, D., Cox, T.J., Hernquist, L., ApJL, 2008, 681,L77
4. *Molecular Star Formation Rate Indicators in Galaxies*, Narayanan, D., Cox, T.J., Shirley, Y., Dave, R., Hernquist, L., Walker, C.K., ApJ, 2007, 694, 996
5. *The Role of Galactic Winds on Molecular Gas Emission from Galaxy Mergers*, Narayanan, D., Cox, T.J., Kelly, B., Hernquist, L., Di Matteo, T., Hopkins, P., Kulesa, C., Robertson, B., Walker, C.K., ApJS, 176,331
6. *The Nature of CO Emission in $z \sim 6$ Quasars* Narayanan, D., Li, Y., Cox, T.J., Hernquist, L., Hopkins, P., Chakrabarti, S., Dave, R., Di Matteo, T., Gao, L., Kulesa, C., Robertson, B., Walker, C.K., ApJ, 657, 1426
7. *Molecular Outflows in Galaxy Merger Simulations with Embedded AGN*, Narayanan, D., Cox, T.J., Robertson, B., Dave, R., Di Matteo, T., Hernquist, L., Hopkins, P., Kulesa, C., Walker, C.K.

8. *Molecular Line Emission from Gravitationally Unstable Protoplanetary Disks*, Narayanan, D., Kulesa, C., Boss, A., Walker, C.K., ApJ, 2006, 647,1426
9. *Warm-Dense Molecular Gas in the ISM of Starbursts, LIRGs and ULIRGs*, Narayanan, D., Groppi, C.E., Kulesa, C.A., Walker, C.K., ApJ, 2005, 630, 269
10. *Variability Tests for Intrinsic Absorption Lines in Quasar Spectra*, Narayanan, D., Hamann, F., Barlow, T., Burbidge, E.M., Cohen, R., Junkkarinen, V., Lyons, R., ApJ, 2004, 601, 715

Co-Author Publications

1. *The Merger-Driven Evolution of Warm Infrared Luminous Galaxies*, Younger, J., Hayward, C., Narayanan, D., Cox, T., Hernquist, L., Jonsson, P., 2009, MNRAS, arXiv:0904.0248
2. “The Star Formation Rate-Dense Gas Relation in Galaxies as Measured by HCN(3-2) Emission”, Bussmann, R.S., Narayanan, D., Shirley, Y.L., Juneau, S., Wu, J., Solomon, P.M., Vanden Bout, P.A., Moustakas, J., Walker, C.K., 2008, ApJ,681L,73

Invited Colloquia

- 2009 University of Virginia/NRAO (Astronomy Colloquium)
- 2008 Yale University (YACC Colloquium)
- 2008 UMass Amherst (Astronomy Colloquium)
- 2008 University of Arizona (Theoretical Astrophysics Colloquium)
- 2008 University of Florida (Astronomy Colloquium)
- 2006 Harvard University (Theoretical Astrophysics Colloquium)
- 2006 University of Florida (Theoretical Astrophysics Colloquium)

Grants

NSF SCREMS MRI *Computing a Universe of Galaxies*, 2006, PI: R. Davé
 AAS Travel Grant 2008,2006, PI: D. Narayanan
 NSF Graduate Research Fellowship, 2004, PI D. Narayanan

Observing Experience

Heinrich Hertz Submillimeter Telescope (10m)
 Arizona Radio Observatory (former NRAO) 12m Radio Telescope

Service

Referee: ApJ, ApJL

- Public Lecture for Philips Academy Students (2009)
- Public Lecture Cambridge Senior Center (2009)
- Public Lecture Arizona Astronomy Board (2008)