

## Ramana Athreya

Associate Professor

Indian Institute of Science Education & Research (IISER), Pune

rathreya @ iiserpune.ac.in

<http://www.iiserpune.ac.in/~rathreya>

## List of Publications (June 2010)

Conference contributions have not been listed after the publication of the main article.

### Astronomy

ApJ: Astrophysical Journal (America)

ApJS: Astrophysical Journal Suppl. (Univ of Chicago)

A&A: Astronomy & Astrophysics (European Journal)

MNRAS: Monthly Notices of the Royal Astronomical Society (British)

JapA: Journal of Astrophysics & Astronomy (Indian Academy of Sciences)

1. **Athreya, R. M.** (2009) *A new approach to mitigation of radio frequency interference in radio interferometric data.* ApJ, 696, 885
2. **Athreya, R. M.**, Hoekstra, H., Mellier, Y., Cuillandre, J.-C., Narasimha, D., (2001), *Mass Distribution in Abell 370 from Weak-lensing in Gravitational Lensing : Recent Progress and Future Goals* Eds Brainerd T.G., Kochanek C. ASP Conf. Series 237, 303
3. **Athreya, R. M.**, Kapahi, V. K. (1998) *The redshift dependence of spectral index in powerful radio galaxies.* JApA, 19, 63
4. **Athreya, R. M.**, Kapahi, V. K., McCarthy, P. J., van Breugel, W. J. M. (1997) *Steep spectrum radio cores in high redshift galaxies.* MNRAS, 289, 525
5. **Athreya, R. M.**, Kapahi, V. K., McCarthy, P. J., van Breugel, W. J. M. (1998) *Large rotation measures in radio galaxies at  $z > 2$ .* A&A, 329, 809
6. **Athreya, R. M.**, Mellier, Y., van Waerbeke, L., Fort, B., Pell´, R., Dantel-Fort, M., (2002) *Weak lensing analysis of MS 1008-1224 with the VLT.* A&A, 384, 743
7. Baker J., Hunstead R., **Athreya R.M.**, Barthel P.D., de Silva E., Lehnert M.D., Saunders R.D.E. (2002) *Associated absorption lines in radio quasars 1. CIV absorption and the growth of radio sources.* ApJ, 568, 592.
8. Baker, J., Hunstead, R., Bremer, M., Bland-Hawthorne, J., **Athreya, R. M.**, Barr J. (1999) *Tunable-filter imaging of quasar fields at  $z \sim 1$ . 1. A cluster around MRC 0450221.* AJ, 2001, 121(4), 1821
9. Bondi, M., Ciliegi, P., Venturi, T., Dallacasa, D., Bardelli, S., Zucca, E., **Athreya, R. M.**, Gregorini, L., Zanichelli, A., Le Fvre, O. (2007) *The VVDS-VLA deep field. III. GMRT observations at 610 MHz and the radio spectral index properties of the sub-mJy population.* A&A, 463, 519
10. Curran, S. J., Whiting, M. T., Murphy, M. T., Webb, J. K., Longmore, S. N., Pihlstrm, Y. M., **Athreya, R.**, Blake, C. (2006) *A survey for redshifted molecular and atomic absorption lines - I. The Parkes half-Jansky flat-spectrum red quasar sample.* MNRAS, 371, 431
11. Curran, S. J., Tzanavaris, P., Darling, J. K., Whiting, M. T., Webb, J. K., Bignell, C., Athreya, R., Murphy, M. T. (2010) *New searches for HI 21 cm in damped Lyman  $\alpha$  absorption systems,* MNRAS, 402, 35
12. Giacintucci, S., Venturi, T., Macario, G., Dallacasa, D., Brunetti, G., Markevitch, M., Cassano, R., Bardelli, S., **Athreya, R.** (2008) *Shock acceleration as origin of the radio relic in A 521?* A&A, 486, 347

13. Giacintucci, S., Vrtilik, J. M., Murgia, M., Raychaudhury, S., O'Sullivan, E. J., Venturi, T., David, L. P., Mazzotta, P., Clarke, T. E., **Athreya, R. M.** *A Giant Metrewave Radio Telescope Multifrequency Radio Study of the Isothermal Core of the Poor Galaxy Cluster AWM4*. ApJ, 682, 186
14. Giacintucci, S., Venturi, T., Murgia, M., Dallacasa, D., **Athreya, R. M.**, Bardelli, S., Mazzotta, P., Saikia, D. J. (2007) *Radio morphology and spectral analysis of cD galaxies in rich and poor galaxy clusters*. A&A, 476, 99
15. Kanekar N., **Athreya R. M.**, Chengalur J.N. (2002) *A new 21-cm absorber identified with an L\* galaxy*. A&A, 382, 838
16. Kapahi, V. K., **Athreya, R. M.**, Subrahmanya, C. R., Hunstead, R. W., Baker, J. C., McCarthy, P. J., van Breugel, W. (1995) *Cosmological evolution of linear sizes and the unification of quasars and radio galaxies*. JApAS, 16, 125.
17. Kapahi V.K., **Athreya R.M.**, Subrahmanya C.R., McCarthy P.J., van Breugel W. (1995a) *Multiwaveband Studies of the Molonglo 1-Jy Sample of Radio Galaxies*. JApAS, 16, 203
18. Kapahi, V. K., **Athreya, R. M.**, Subrahmanya, C. R., McCarthy, P. J., van Breugel, W. (1998a) *The Molonglo Reference Catalogue 1Jy Radio Source Survey : II; Radio Structures of Galaxy Identifications*. ApJS, 118, 27
19. Kapahi, V. K., **Athreya, R. M.**, Subrahmanya, C. R., Baker, J. C., Hunstead, R. W., McCarthy, P. J., van Breugel, W. (1998a) *The Molonglo Reference Catalogue 1Jy Radio Source Survey : III; Identification of a Complete Quasar Sample*. ApJS, 118, 327
20. Macario, G., Venturi, T., Brunetti, G., Dallacasa, D., Giacintucci, S., Cassano, R., Bardelli, S., Athreya, R. (2010) **The very steep spectrum radio halo in Abell 697** A&A, accepted for publication.
21. McCarthy, P. J., Kapahi, V. K., van Breugel, W., **Athreya, R. M.**, Persson, S. E., Subrahmanya, C. R. (1996) *MRC/1Jy Radio source survey I - Radio galaxy identifications*. ApJS, 107, 19
22. Rush, B., McCarthy, P. J., **Athreya, R. M.**, Persson, E. (1996) *The high redshift radio galaxy MRC 0406-244*. ApJ, 484, 163
23. Westra, E., Jones, D. H., Lidman, C. E., **Athreya, R. M.**, Meisenheimer, K., Wolf, C., Szeifert, T., Pompei, E., Vanzi, L. (2005) *The Wide Field Imager Lyman-Alpha Search (WFILAS) for galaxies at redshift 5.7. I. A spatially compact Ly emitting galaxy at z=5.721*. A&A, 430, 21
24. Westra, E., Jones, D. H., Lidman, C. E., Meisenheimer, K., **Athreya, R. M.**, Wolf, C., Szeifert, T., Pompei, E., Vanzi, L. (2006) *The wide field imager Lyman-alpha search (WFILAS) for galaxies at redshift 5.7. II. Survey design and sample analysis*. A&A 455, 61

## Ecology

25. Agarwal, I., Mistry V., **Athreya R. M.** (2009) *A Preliminary checklist of the reptiles of Eaglenest wildlife sanctuary in west Kameng district, Arunachal Pradesh, India*. Russian Journal of Herpetology (accepted for publication)
26. **Athreya, R. M.** (2006a) *A new species of Liocichla (Aves:Timaliidae) from Eaglenest wildlife sanctuary, Arunachal Pradesh, India*. Indian Birds, 2(4), 82
27. **Athreya, R. M.**, Singh, V. A. (1990) *Scaling models for flight patterns and sexual dimorphism in raptors*. J. Bombay Nat. Hist. Soc. 87(2), 210
28. Karthikeyan, S., **Athreya, R. M.**, Prasad, J. N. (1993) *A range extension of Calotes nemoricola from the Anaimalais, Western Ghats*. Hamadryad 18: 45-46
29. **Athreya, R. M.** (1997) *A Faunal Survey of Namdapha Tiger Reserve, Arunachal Pradesh, India*. A Project Report for the Oriental Bird Club (U.K.) and The World Pheasant Association.
30. **Athreya, R. M.** (2006b) *Eaglenest Biodiversity Project I (2003-2006); Conservation resources for Eaglenest wildlife sanctuary*. Kaati Trust, Pune.