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Area of Interest:

Astrophysics: observations and theory:
observational (radio, X-ray, Optical) and theoretical aspects of Active Galactic Nuclei (AGNs) which is nothing but a SuperMassive Black Hole (SMBH) systems; SMBH jets; particle acceleration at the jet termination shocks and lobes; mode of accretion in AGNs; episodic jet launching activity of AGNs; and Comparison of jet properties at different episodes of AGN activity.

List of Publications

INTERNATIONAL

1. Konar C., Hardcastle M.J.; Particle acceleration and dynamics of double-double radio galaxies: Theory vs. Observations; Monthly Notices of Royal Astronomical Society, Oxford University Press, 2013, 436, 1595-1614.

2. Konar C., Hardcastle M.J., Jamrozy M., Croston J.H.; Episodic radio galaxies J0116-472 And J1158+2621: can we constrain the quiescent phase of nuclear activity?; Monthly Notices Of Royal Astronomical Society, Oxford University Press, 2013, 430, 2137-2153.

3. Konar C., Hardcastle M.J., Jamrozy M., Croston J.H., Nandi S.; Rejuvenated radio galaxies J0041+3224 and J1835+6204: how long can the quiescent phase of nuclear activity last?; Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2012, 424, 1061-1076.

4. Hota A., Sirothia S.K., Ohyama Y, Konar C., Kim S., Rey S.-C., Saikia D.J., Croston J.H., Matsushita S.; Discovery of a spiral-host episodic radio galaxy, Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2011, 417, L36-L40.

5. Joshi S.A., Nandi S., Saikia D.J., Ishwara-Chandra C.H., Konar C.; A radio study of the Double-double radio galaxy 3C293; Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2011, 414, 1397-1404.

6. Nandi S., Pirya A., Pal S., Konar C., Saikia D.J., Singh M.; A multifrequency study of the Large radio galaxies 3C46 and 3C452 (2010); Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2011, 404, 433-441.

7. J. Machalski, M. Jamrozy, C. Konar; Spectral ageing analysis and dynamical analysis of the Double-double radio galaxy J1548−3216 (2010); Astronomy and Astrophysics, EDP Sciences For European Southern Observatory, 2010, 510, A84 (1-16).

8. Konar C., Hardcastle M.J., Croston J.H., Saikia D.J.; The dynamics of the giant radio galaxy 3C457; Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2009, 400, 480-491.

9. Jamrozy M., Saikia D. J., Konar C.; 4C02.27: a quasar with episodic activity?; Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2009, 399, L141-L145.

10. Godambe S., Konar C., Saikia D.J., Wiita P.J.; A multifrequency study of possible relic Lobes in giant radio sources (2009); Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 396, 860-869.

11. Jamrozy M., Konar C., Machalski J., Saikia D. J.; A multifrequency study of giant radio Sources-II. Spectral ageing analysis of the lobes of selected sources; Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2008, 385, 1286-1296.

12. Konar C., Jamrozy M., Saikia D. J., Machalski J., 2008; A multifrequency study of giant radio Sources - I. Low-frequency Giant Metrewave Radio Telescope observations of selected sources; Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2008, 383, 525-538.

13. Jamrozy M., Konar C., Saikia D. J., Stawarz L., Mack K.-H., Siemiginowska A.; Intermittent Jet activity in radio galaxy 4C29.30?; Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2007, 378, 581-593.

14. Saikia D. J., Gupta Neeraj, Konar C.; Hi gas in rejuvenated radio galaxies: Giant Metrewave Radio Telescope observations of the DDRG J1247+6723 (2007); Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2007, 375, L31-L35.

15. Konar C., Saikia D. J., Jamrozy M., Machalski J.; Spectral ageing analysis of the doubledouble radio galaxy J1453+3308 (2006), Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2006, 372, 693-702.

16. Saikia D. J., Konar C., Kulkarni V. K.; J0041+3224: a new double-double radio galaxy; Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2006, 366, 1391-1398.

17. Konar C., Saikia D. J., Ishwara-Chandra C. H., Kulkarni V. K.; Radio observations of a few giant sources; Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2004, 355, 845-854.

18. Singal Ashok K., Konar C., Saikia D. J.; J1432+158: the most distant giant quasar; Monthly Notices of Royal Astronomical Society, Blackwell Publishing, 2004, 347, L79-L82.

NATIONAL

Nil

CONFERENCE PROCEEDINGS

International:

1. Konar C., Hardcastle M.J.; FR II radio galaxies: jet dynamics and episodic behaviour; Bulletin of Astronomical Society of India, Astronomical Society of India, 2014.

2. New results on the exotic galaxy 'Speca' and discovering many more Specas with RAD@home network (2014), Hota A., Croston J.H., Ohyama Y., Stalin C.S., Hardcastle M.J., Konar C. et al., Bulletin of Astronomical Society of India, submitted.

3. Konar C., Jamrozy M., Hardcastle M.J., Croston J.H., Nandi S., Saikia D.J., Machalski J.; The dynamics of radio galaxies and double-double radio galaxies; Journal of Astrophysics and Astronomy, Springer, 2011, 32, 477-486.

4. Joshi S.A., Nandi S., Saikia D.J., Ishwara-Chandra C.H., Konar C.; The double-double radio galaxy 3C293 (2011); Journal of Astrophysics and Astronomy, Springer, 2011, 32, 487-490.

5. Pirya A., Nandi S., Saikia D.J., Konar C., Singh M.; A multifrequency study of five large radio galaxies; Journal of Astrophysics and Astronomy, Springer, 2011, 32, 471-474.

6. Pirya A., Nandi S., Saikia D.J., Konar C., Singh M., 2011; A multi-frequency study of five large radio galaxies; Astronomical Society of India Conference Proceedings (ASInC), 2011, 3, 148.

7. Bagchi J., Gopal-Krishana, Krause M., Konar C., & Joshi S.; A giant radio jet of very unusual polarization in a single-lobed radio galaxy; Astronomical Society of the Pacific Conference series (ASPC), Astronomical Society of the Pacific, 2009, 407, 200.

8. Konar C., Hardcastle M.J., Croston J.H., Saikia D.J.; A radio and X-ray study of 3CR457 and its environment; Astronomical Society of the Pacific Conference series (ASPC), Astronomical Society of the Pacific, 2009, 407, 192.

9. Konar C., Saikia D.J., Jamrozy M., Machalski J., 2009; Spectral ages of giant radio sources (2009); Astronomical Society of the Pacific Conference series (ASPC), 407, 188.

10. Godambe S., Konar C., Saikia D.J., Wiita P.J.; Possible relic lobes in giant radio sources; Astronomical Society of the Pacific Conference series (ASPC), Astronomical Society of the Pacific, 2009, 407, 184.

11. Jamrozy M., Konar C., Machalski J., Saikia D.J.; A multifrequency study of double-double radio galaxies; Astronomical Society of the Pacific Conference series (ASPC), Astronomical Society of the Pacific, 2009, 407, 137.

12. Jamrozy M., Konar C., Machalski J., Mack K.-H., Saikia D.J., Siemiginowska A., Stawarz L.; Recurrent activity in radio galaxy (2008); Astronomical Society of the Pacific Conference series (ASPC), Astronomical Society of the Pacific, 2008, 386, 125.

13. Saikia D. J., Konar C., Jamrozy M., Machalski J., Gupta Neeraj, Stawarz L., Mack K.-H., Siemiginowska A.; Episodic activity in radio galaxies; Astronomical Society of the Pacific Conference series (ASPC), Astronomical Society of the Pacific, 2007, 373, 217.

14. Konar C., Machalski J., Saikia D. J., Jamrozy M.; Re-acceleration in the lobes of giant radio galaxies; American Institute of Physics Conference Proceedings (AIPC), American Institute of Physics, 2005, 801, 375-378.

15. Konar C., Saikia D. J., Machalski J., Jamrozy M., Singal A. K., Mathur S.; Giant radio sources (2005); A paper presented in the international conference, ‘URSI General Assembly 2005’ in New Delhi, India

National conference proceedings/poster papers

1. Konar Chiranjib, Saikia D.J., Ishwara-Chandra C.H., Kulkarni V.K.; A study of giant radio galaxies; Bulletin of Astronomical Society of India, Astronomical Society of India, 2003, 31, 437-438.

PATENTS

NIL

PROJECTS

NIL