

Ashish Raj

Curriculum Vitae

Personal Information

Full Name: Ashish Raj

Date of Birth: 07 April 1984

Place of Birth: Ayodhya, Uttar Pradesh, India

Gender: Male

Nationality: INDIAN

Address for Correspondence

Dr. Ashish Raj, Assistant Professor, Indian Centre for Space Physics, Kolkata, India

Contact: +918840099141

Email : ashish@csp.res.in, ashishpink@gmail.com

Present Academic Status

Academic Background (University onwards)

Research Associate from October 2019 – to August 2022 at Department of Physics and Astrophysics, University of Delhi, India.

Postdoctoral Fellow from July 2016 – June 2019 at Indian Institute of Astrophysics, II Block Koramangala, Bangalore 560 034, India.

Postdoctoral Fellow from April 2014 - March 2016 at Korea Astronomy and Space Science Institute 776, Daedeokdae-ro, Yuseong-gu, Daejeon, Republic of Korea 305-348

Postdoctoral Fellow from November 2012 - March 2014 at Physical Research Laboratory, Ahmedabad, India.

Ph.D in Astronomy and Astrophysics from Physical Research Laboratory, Ahmedabad, India in November 2012.

M.Sc. in Physics from Banaras Hindu University, Varanasi, India in 2007.

B.Sc.(Hons) in Physics from Banaras Hindu University, Varanasi, India in 2005.

Research Areas

Study of Transient objects (Novae, Supernovae, Tidal Disruption Events (TDEs) and AGN etc.), Double Periodic Variables Stars (DPVs), FS CMa stars

List of Refereed papers

1. The first detection of a magnetic field in a low luminosity B[e] stars. New scenarios for the nature and evolution stage of FS CMa stars

Daniela Korčáková,.....**A. Raj**...et al. 2022 accepeted for publication in A&A

2. Nova V5579 Sgr 2008: Near-infrared studies during maximum and the early decline phase

Ashish Raj, N. M. Ashok, D. P. K. Banerjee

Monthly Notices of the Royal Astronomical Society, 415, 3455-3461, 2011

3. V496 Scuti: an Fe II nova with dust shell accompanied by CO emission
Ashish Raj, N. M. Ashok, D. P. K. Banerjee, U. Munari, P. Valisa, S. Dallaporta
Monthly Notices of the Royal Astronomical Society, 425, 2576-2588, 2012
4. Nova KT Eri 2009: Infrared studies of a very fast and small amplitude He/N nova
Ashish Raj, D. P. K. Banerjee and N. M. Ashok
Monthly Notices of the Royal Astronomical Society, 433, 2657-2666, 2013.
5. Near-IR studies of recurrent nova V745 Scorpii during its 2014 outburst
D. P. K. Banerjee V. Joshi, V. Venkataraman, N. M. Ashok, G. H. Marion, E. Y. Hsiao,
Ashish Raj,
The Astrophysical Journal Letters, 785, L11-15, 2014.
6. IR study of nova V2468 Cyg from early decline to the coronal phase
Ashish Raj, N. M. Ashok, R. J. Rudy, R. W. Russell, D. K. Lynch, C. E. Woodward, M. Sitko, A. Day-Wilson, R. B. Perry, S. C. KIM and M. Pak
The Astronomical Journal, 149, 136-142, 2015.
7. Near-infrared studies of nova V5584 Sgr in the pre-maximum and early decline phase
Ashish Raj, N. M. Ashok, D. P. K. Banerjee, and Sang Chul KIM
Research in Astronomy and Astrophysics, 15, 993-1002, 2015
8. Primary Black Hole Spin in OJ 287 as Determined by the General Relativity Centenary Flare
M. J. Valtonen,.....**Ashish Raj** et al.
The Astrophysical Journal Letters, 819, L37-42, 2016.
9. A Search for QPOs in the Blazar OJ287: Preliminary Results from the 2015/2016 Observing Campaign
S. Zola,.....**Ashish Raj** et al.
Galaxies, 4, 41, 2016
10. Optical and near-IR study of nova V2676 Oph
Ashish Raj, R. K. Das and F. M. Walter
The Astrophysical Journal, 835, 274, 2017
11. Stochastic Modeling of Multiwavelength Variability of the Classical BL Lac Object OJ 287 on Timescales Ranging from Decades to Hours
A. Goyal,.....**A. Raj**,..et al., The Astrophysical Journal, 863, 2175, 2018
12. V2676 Oph: Estimating physical parameters of a moderately fast nova
A. Raj, M. Pavana, U. S. Kamath, G. C. Anupama and F. M. Walter, Acta Astronomica, 68, 79-88, 201813.
13. Authenticating the presence of relativistic massive black hole binary in OJ 287 using its GR Centenary flare: improved orbital parameters
L. Dey,.....**A. Raj**,..et al., 2018, The Astrophysical Journal, 866, 11, 2018
14. On the long cycle variability of the Algol OGLE-LMC-DPV-065 and its stellar, orbital and disk parameters
R.E. Mennickent,.....**A. Raj**,et al., 2019, MNRAS, 487, 4169

15. X-ray and Optical observations of three candidate polars: RX J0859.1+0537, RX J0749.1-0549, and RX J0649-0737
 Arti Joshi, J. C. Pandey, **Ashish Raj**, et al., 2020, MNRAS, 491, 201
16. Multi-band optical variability of 3C 279 on diverse timescales
 A. Agarwal,....., **A. Raj**, et al., 2019, MNRAS, 488, 4093
17. Magnetic activities on active solar-type stars
 S. Karmkar,....., **A. Raj**, 2019, BSRSL, 88, 182
18. Spectroscopic monitoring of the B[e] objects FS CMa and MO Cam
 Aizhan K. Kuratova,....., **A. Raj** et al., 2019, OAP, 32, 63
19. Spectroscopic and geometrical evolution of the ejecta of the classical nova ASASSN-18fv
 Pavana M., **A. Raj** et al. 2020, MNRAS, 495, 2075
20. Binarity among objects with the Be and B[e] phenomena
 A.S. Miroshnichenko,....., **A. Raj**,.....et al. 2020, CoSka, 50, 513
21. Multi-band behaviour of the TeV blazar PG 1553+113 in optical range on diverse timescales
 A. Agarwal,.....**A. Raj**,...et al., 2020, A&A, 645, 137
22. X-ray confirmation of the Intermediate Polar: IGR J16547-1916
 A. Joshi ...**A. Raj**..et al., 2022, A&A, 657, 12
23. The intermediate polar cataclysmic variable GK Persei 120 years after the nova explosion: a first dynamical mass study.
 Álvarez Hernández, Ayoze....**A. Raj**..et al. 2021, MNRAS, 507, 5805
24. Toward Understanding the B[e] Phenomenon. VIII. Spectroscopic and photometric variability of AS 160
 Nizovkina, M.A., ...**Raj**, **A.**, to be submitted in ApJ
25. Toward Understanding the B[e] Phenomenon. IX. Revealing the nature of IRAS 07080+0605
 Khokhlov, S.A.,**Raj**, **A.**, to be submitted in ApJ

Conference Proceedings

1. Near-infrared study of fast nova KT Eridani
 Ashish Raj, N. M. Ashok and D. P. K. Banerjee
 Astronomical Society of India, 3, 113, 2011.
2. Near Infrared study of nova V2468 Cyg and V5584 Sgr
 Ashish Raj, D. P. K. Banerjee, N. M. Ashok and S. C. KIMCOSPAR Scientific Assembly, 40, 2687, 2014.
3. V496 Scuti: Detection of CO emission and dust shell in a moderately fast Fe II nova
 Ashish Raj, N. M. Ashok, D. P. K. Banerjee, U. Munari, P. Valisa, S. Dallaporta
 ASP Conf., 490, 267, 2014.
4. Four years of Starspot Evolution on active F-type ultra-fast rotator KIC 6791060
 Subhajeet Karmakar, Jeewan C. Pandey, Igor S. Savanov, Ashish Raj, Yurij Pakhomov and

D. K. Sahu, Proceedings IAU Symposium No. 340, 2018

5. High accuracy measurement of gravitational wave back-reaction in the OJ287 black hole binary
MJ Valtonen,, A. Rajet al. 2018, to appear in the Proceedings of Gravitational Wave
Astrophysics: Early Results from Gravitational Wave Searches and Electromagnetic Counterparts.
eds. Gabriela Gonzales and Robert Hynes, arXiv181000566V

6. Optical and Near-infrared High-resolution Spectroscopic Observations of Nova V2659 Cyg:
Structure of Nova Ejecta and Origin of Two-distinct Velocity Systems
Akira Arai, H. Kawakita, A.Raj,...et al., 2018, accepted for publication in PoS
(<https://pos.sissa.it/315/053/>)

Abstracts and Circulars

1. High-resolution spectroscopy of Nova Cyg 2014

Raj, Ashish; Munari, U.; Lee, Byeong-Cheol; Kim, Sang Chul; Kim, Sang-Joon; Sim, Chae-Kyung,
The Astronomer's Telegram, 6181

2. Near-infrared observations of recurrent nova V745 Sco

Banerjee, Dipankar P. K.; Venkataraman, V.; Joshi, Vishal; Raj, Ashish; Ashok, N. M.;
The Astronomer's Telegram, 5865

3. Near-Infrared photometric observations of Nova Cephei 2013

Raj, Ashish; Banerjee, D. P. K.; Ashok, N. M.; The Astronomer's Telegram, 5026.

4. Near-IR observations of Nova Scorpii 2012 and Nova Ophiuchi 2012 No. 2

Raj, Ashish; Ashok, N. M.; Banerjee, D. P. K., The Astronomer's Telegram, 4211

5. Near-IR photometric observations of Nova Ophiuchi 2012 No. 2

Raj, Ashish; Ashok, N. M.; Banerjee, D. P. K., The Astronomer's Telegram, 4169

6. Near-IR photometric observations of PG 1553+113

Raj, Ashish; Venkataraman, V.; Ashok, N. M.; Banerjee, D. P. K.; The Astronomer's Telegram, 4107

7. Infrared Observations of Nova Sagittarii 2012 = PNV J17452791-2305213

Raj, Ashish; Ashok, N. M.; Banerjee, D. P. K.; Venkata Raman, V. The Astronomer's Telegram,
4093

8. Near-infrared photometric observations of Nova Ophiuchi 2012

Raj, Ashish; Ashok, N. M.; Banerjee, D. P. K.; Raman, V. Venkata; The Astronomer's Telegram,
4027

9. V496 Scuti

Raj, Ashish; Ashok, N. M.; Banerjee, D. P. K. Central Bureau Electronic Telegrams, 206910.

10. V5584 Sagittarii

Raj, Ashish; Ashok, N. M.; Banerjee, D. P. K.; Hornoch, K., Central Bureau Electronic Telegrams,
2002

11. Optical and near-IR spectroscopy of nova Oph 2017 (TCP J17394608-2457555)

Ashish Raj, M. Pavana, G. C. Anupama, Anirban Bhowmick, Rahul Dar and Pramod Kumar S.,
The Astronomer's Telegram, 10420

12. Spectroscopic confirmation of ASASSN-18ca as a nova
Ashish Raj, D. K. Sahu, B. S. Kiran, G. C. Anupama, The Astronomer's Telegram, 11292
13. BVRI polarimetry of PNV J16484962-4457032
S. Muneer, G. C. Anupama, S. Venkateswara Rao, K. Sagayanathan, Ashish Raj, M. Pavana, The Astronomer's Telegram, 11333
14. Optical photometry of recurrent nova M31N 2008-12a
V. K. Agnihotri and A. Raj, The Astronomer's Telegram, 12189
15. Additional BVRI photometry of recurrent nova M31N 2008-12a
V. K. Agnihotri and A. Raj, The Astronomer's Telegram, 12204
16. GRB 190202A: R and I band observation from HCT
Brajesh Kumar, Avinash Singh, A. Raj, S. B. Pandey, D. K. Sahu and G. C. Anupama
GCN Circulars# 23853

Note: A detailed list for all my publications can be found on the following link-
<https://sites.google.com/view/ashish-raj-007/home?authuser=0>

Work in Progress

1. Optical study of nova V2362 Cyg and V2491 Cyg
Ashish Raj et al. in preparation
2. The property of ESO149-G003, a dwarf galaxy lying at the far side of the Sculptor Filament, as revealed by its stellar populations
M. Pak..Ashish Raj et al. in preparation
3. Abundance analysis of nova KT Eri
R. K. Das, Ashish Raj et al. in preparation
4. Near-infrared study of nova V2673 Oph, V2674 Oph and V2677 Oph
A. Raj et al. in preparation
5. Near-infrared study of nova V1310 Sco, V1311 Sco and V1722 Aql
A. Raj et al. in preparation
6. Near-infrared study of nova V5581 Sgr, V5582 Sgr and V5585 Sgr
A. Raj et al. in preparation
7. Spots, flares and surface differential rotation of a F-dwarf KIC 6791060
S. Karmkar, J. C. Pandey, I. S. Savanov...A. Raj,et al., in preparation

Awards/Grants received

1. Qualified JEST-2007 (percentile - 98.74, All India Rank - 51) and GATE-2008 (percentile - 91.97).
2. Got the offer for the FAST Fellowship at National Astronomical Observatory China (NAOC)
Status – declined.

Membership/Grants

1. Life Member of Astronomical Society of India (L2176).
2. Member of Korean Astronomical Society.
3. Got the IAU Grant of 600 EUR to attend (Oral presentation) IAU meeting (APRIM-2017) in Taiwan between 3-7 July 2017.
4. Got the registration grant for BINA workshop at Belgium but declined due to funds and other issues.

Responsibilities: Judge for Hindi Pakhwada at IIA (2016-2018) and reviewer for HCT proposal (2020 Cycle 1), DOT proposals (2020 Cycle 2)

Teaching/Guidance: Guided 5 Master students for their project and instructor for Laser Physics Lab in Department of Physics and Astrophysics, University of Delhi.

International Conferences

1. Chandrasekhar Centenary Conference, December 7-11, 2010 held in IIA, Bangalore.
2. Stella Novae: Past and Future Decades, February 4-8, 2013 held in Cape Town, South Africa.
3. International Meeting on Transients and Timing: A Multi-wavelength Approach, March 4-8, 2013 held in IUCAA, Pune, India.
4. The 40th COSPAR Scientific Assembly: August 2-10, 2014 held in Moscow, organized by Lomonosov Moscow State University, Russia.
5. 12th Asia-Pacific Regional IAU Meeting (APRIM 2014): August 18-22, 2014 held in Daejeon, organized by KASI, Korean Astronomical Society and Korean Space Science Society, South Korea.
6. 2014 KAS Fall Meeting of the Korean Astronomical Society: October 15-17, 2014 held in Lotte City Hotel, Jeju, organized by Korean Astronomical Society, South Korea.
7. Recent Trends in the Study of Compact Objects - Theory and Observation (RETCO - II): May 6-8, 2015 held in Nainital, organized by ARIES, India.
8. Asia-Pacific Regional IAU Meeting (APRIM-2017): July 3-7, 2017 held in Taipei, Taiwan.
9. Nominated by the Director IIA as Young Scientist to participate in IISF-2018 conference at Lucknow during 5-8 October 2018.
10. "Exploring the Universe: Near-Earth space science to extragalactic astronomy" (EXPUNIV2018) at the Department of Astrophysics and Cosmology of S. N. Bose National Centre for Basic Sciences, Kolkata, INDIA during 14-17 November 2018.

National Conferences

1. Young Astronomer's Meet (YAM 2007) held at IIA Bangalore, January 3-5, 2007, participated.
2. 27th Meeting of Astronomical Society of India(ASI) held at Indian Institute of Astrophysics, Bangalore, February 18-20, 2009, presented poster paper on "Near-Infrared Studies of V5579 Sgr (Nova Sgr 2008)".
3. Young Astronomer's Meet (YAM 2009) held at IIT Kharagpur, March 14-16, 2009, presented talk on "Infrared Studies of Classical Novae".
4. 16th National Space Science Symposium, February 24-27, 2010, presented poster paper on "Near-Infrared Studies of V5584 Sgr".
5. One of the Convener for the Young Astronomer's Meet (YAM 2010) organized in PRL, September 3-5, 2010.
6. 29th Meeting of Astronomical Society of India(ASI) held at Pt. Ravishankar Shukla University, Raipur, February 23-25, 2011 presented talk on "Near-Infrared study of very fast nova KT Eridani"
7. "Indo-US meeting on Astronomy with Adaptive Optics on Moderate-sized Telescopes" (August 22-25, 2011) at IUCAA, Pune, India.
8. 17th National Space Science Symposium, February 14-17, 2012, presented poster paper on "Near Infrared Studies of V496 Scuti: Detection of CO emission".
9. "X-ray View of Cosmos" held at Physical Research Laboratory, Ahmedabad, April 23-25, 2012.
- 10."Neighbourhood Astronomy Meeting (NAM) – 2018" held at Indian Institute of Astrophysics, Bangalore, 5-6 April 2018, presented a talk on "Study of Classical Novae".
11. Attended and volunteered VBO-50 meeting held in IIA, Bangalore during 9-10 August 2018.

Seminar

1. Division Seminar on Highlights of "Kodai School on synthesis of elements in stars" in PRL Ahmedabad.
2. Division Seminar on "Infra-red studies of Nova V5579 Sgr" in PRL, Ahmedabad.
3. Astro Seminar on "Near Infraed studies of Novae" in Tata Institute of Fundamental Research, Mumbai.
4. Division Seminar on "Near-IR study of fast nova KT Eri" in PRL, Ahmedabad.
5. Astro Seminar on "Near-infrared study of classical novae" in Aryabhatta Research Institute of Observational Sciences, Nainital.

List of Workshop/Training program/Summer/Winter School attended

1. "Kodai School on synthesis of elements in stars"
organized by Indian Institute of Astrophysics, Bangalore at Kodaikanal during the period April 29 - May 13, 2008.
2. "Workshop on Current trends in Radial-Velocity (RV) and Exo-planets organized by Physical Research Laboratory, January 21 - 22, 2013.

List of Workshop/Training program/Summer/Winter School organized

1. One of the Convener of "Young Astronomer's Meet" organized by Physical Research Laboratory, September 3 - 5, 2010.

Programming languages and other skills

1. IRAF (Image reduction and analysis facility) for infrared and optical photometric and spectroscopic reduction and preliminary knowledge of IDL, MATLAB, MATHEMATICA, Python Sigma Plot etc.
2. Good knowledge of LINUX (UBUNTU, FEDORA), DOS and Windows Environments.
3. Good experience in handling the 1.2m telescope at Mt. Abu IR observatory, PRL, India and 1.8m telescope at BOAO, KASI, Korea, 2m telescope at Hanle, HCT and 3.6m telescope at ARIES , Devasthal.
4. Good experience in handling all the experiments in Physics Laboratory.

References

1. Prof. H. P. Singh, Department of Physics and Astrophysics, University of Delhi, India.
email: hpsingh.du@gmail.com
2. Prof. G. C. Anupama, Indian Institute of Astrophysics, II Block Koramangala, Bangalore 560034, India.
email: gca@iiap.res.in
3. Prof. Hideyo KAWAKITA, Koyama Astronomical Observatory, Kyoto Sangyo University, Japan.
email: kawakthd@cc.kyoto-su.ac.jp
4. Prof. Ronald Mennickent Cid, DIRECTOR, Department of Astronomy, Universidad de Concepción, Barrio Universitario, Victor Lamas1290, Casilla 160-C Concepción, Chile
email: rmennick@icloud.com, rmennick@udec.cl
5. Prof. F. M. Walter, Stony Brook University, Stony Brook, NY 11794-3800, USA
email: frederick.walter@stonybrook.edu
6. Dr. S. C. KIM, Korea Astronomy and Space Science Institute (KASI), Daejeon, Korea.
email: sckim@kasi.re.kr
7. Dr. Jeewan Pandey, Aryabhatta Research Institute of Observational Sciences (ARIES), Manora Peak, Nainital 263002, Uttarakhand, India.
email: jeewan@aries.res.in
8. Prof. Anatoly Miroshnichenko, University of North Carolina at Greensboro
Dept. of Physics and Astronomy, USA.
email: a_mirosh@uncg.edu

List of Refereed papers

1. Nova V5579 Sgr 2008: Near-infrared studies during maximum and the early decline phase.

Ashish Raj, N. M. Ashok, D. P. K. Banerjee

Monthly Notices of the Royal Astronomical Society, 415, 3455-3461, 2011

Journal Impact Factor: 5.2

Citations: 15

2. V496 Scuti: an Fe II nova with dust shell accompanied by CO emission.

Ashish Raj, N. M. Ashok, D. P. K. Banerjee, U. Munari, P. Valisa, S. Dallaporta

Monthly Notices of the Royal Astronomical Society, 425, 2576-2588, 2012.

Journal Impact Factor: 5.2

Citations: 27

3. Nova KT Eri 2009: Infrared studies of a very fast and small amplitude He/N nova.

Ashish Raj, D. P. K. Banerjee and N. M. Ashok

Monthly Notices of the Royal Astronomical Society, 433, 2657-2666, 2013.

Journal Impact Factor: 5.2

Citations: 12

4. Near-IR studies of recurrent nova V745 Scorpii during its 2014 outburst.

D. P. K. Banerjee V. Joshi, V. Venkataraman, N. M. Ashok, G. H. Marion, E. Y. Hsiao,

Ashish Raj,

The Astrophysical Journal Letters, 785, L11-15, 2014.

Journal Impact Factor: 5.52

Citations: 30

5. IR study of nova V2468 Cyg from early decline to the coronal phase.

Ashish Raj, N. M. Ashok, R. J. Rudy, R. W. Russell, D. K. Lynch, C. E. Woodward, M.

Sitko, A. Day-Wilson, R. B. Perry, S. C. KIM and M. Pak

The Astronomical Journal, 149, 136-142, 2015.

Journal Impact Factor: 4.8

Citations: 07

6. Near-infrared studies of nova V5584 Sgr in the pre-maximum and early decline phase.

Ashish Raj, N. M. Ashok, D. P. K. Banerjee and Sang Chul KIM

Research in Astronomy and Astrophysics, 15, 993-1002, 2015

Journal Impact Factor: 1.37

Citations: 10

7. Primary Black Hole Spin in OJ 287 as Determined by the General Relativity Centenary Flare

M. J. Valtonen,.....**Ashish Raj** et al.

The Astrophysical Journal Letters, 819, L37-42, 2016.

Journal Impact Factor: 5.52

Citations: 130

8. A Search for QPOs in the Blazar OJ287: Preliminary Results from the 2015/2016 Observing Campaign

S. Zola,.....**Ashish Raj** et al.

Galaxies, 4, 41, 2016

Journal Impact Factor: 1.56, **Citations:** 18

9. Optical and near-IR study of nova V2676 Oph.

Ashish Raj, R. K. Das and F. M. Walter

The Astrophysical Journal, 835, 274, 2017

Journal Impact Factor: 5.53

Citations: 07

10. Stochastic Modelling of Multiwavelength Variability of the Classical BL Lac Object OJ 287 on Timescales Ranging from Decades to Hours

A. Goyal,.....**A. Raj**,..et al., The Astrophysical Journal, 863, 2175, 2018

Journal Impact Factor: 5.53

Citations: 61

11. V2676 Oph: Estimating physical parameters of a moderately fast nova

A. Raj, M. Pavana, U. S. Kamath, G. C. Anupama and F. M. Walter, Acta Astronomica, 68, 79-88, 2018

Journal Impact Factor: 3.04

Citations: 06

12. Authenticating the presence of relativistic massive black hole binary in OJ 287 using its GR

Centenary flare: improved orbital parameters

L. Dey,.....**A. Raj**,..et al., 2018, The Astrophysical Journal, 866, 11, 2018

Journal Impact Factor: 5.53

Citations: 69

13. On the long cycle variability of the Algol OGLE-LMC-DPV-065 and its stellar, orbital and disk parameters

R.E. Mennickent,.....**A. Raj**,et al., 2019, MNRAS, 487, 4169

Journal Impact Factor: 5.20

Citations: 04

14. Spectroscopic monitoring of the B[e] objects FS CMa and MO Cam

Aizhan K. Kuratova,....., **A. Raj** et al. 2019, OAP, 32, 63

15. Multi-band optical variability of 3C 279 on diverse timescales

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Journal Impact Factor: 5.20

Citations: 18

16. Magnetic activities on active solar-type stars

S. Karmkar,....., **A. Raj**, 2019, BSRSL, 88, 182

Citations: 01

17. Optical and X-ray tudies of three polars: RX J0859.1+0537, RX J0749.1-0549,

and RX J0649-0737

Arti Joshi, J. C. Pandey, **Ashish Raj**, et al., 2020, MNRAS, 491, 201

Journal Impact Factor: 5.20,

Citations: 02

18. Spectroscopic and geometrical evolution of the ejecta of the classical nova ASASSN-18fv

Pavana M., A. Raj et al. 2020, MNRAS, 495, 2075

Citations: 07

19. Binarity among objects with the Be and B[e] phenomena
A.S. Miroshnichenko,....., **A. Raj**,....et al. 2020, CoSka, 50, 513,
Citations: 07
20. Multi-band behaviour of the TeV blazar PG 1553+113 in optical range on diverse timescales
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21. The intermediate polar cataclysmic variable GK Persei 120 years after the nova explosion: a first dynamical mass study.
Álvarez Hernández, Ayoze....**A. Raj**..et al. 2021, MNRAS, 507, 5805
Citations: 02
22. X-ray confirmation of the Intermediate Polar: IGR J16547-1916
A. Joshi ...**A. Raj**..et al., 2022, A&A, 657, 12
23. The first detection of a magnetic field in a low luminosity B[e] stars. New scenarios for the nature and evolution stage of FS CMa stars
Daniela Korčáková,.....**A. Raj**...et al. 2022, A&A, 659, 35
24. Optical characterization of two cataclysmic variables: RBS 0490 and SDSS J075939.79 +191417.3
A. Joshi,.....**A. Raj** et al. 2022, AJ, 163, 221
Citations: 01

Other Publications:

Conference Proceedings

1. Near-infrared study of fast nova KT Eridani
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Astronomical Society of India, 3, 113, 2011.
2. Near Infrared study of nova V2468 Cyg and V5584 Sgr
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Citations: 01
3. V496 Scuti: Detection of CO emission and dust shell in a moderately fast Fe II nova.
Ashish Raj, N. M. Ashok, D. P. K. Banerjee, U. Munari, P. Valisa, S. Dallaporta
ASP Conf., 490, 267, 2014.
Citations: 01
4. Four years of Starspot Evolution on active F-type ultra-fast rotator KIC 6791060
Subhajeet Karmakar, Jeewan C. Pandey, Igor S. Savanov, Ashish Raj, Yurij Pakhomov and
D. K. Sahu
Proceedings IAU Symposium No. 340, 2018
5. High accuracy measurement of gravitational wave back-reaction in the OJ287 black hole binary
M. J. Valtonen,, A. Rajet al. 2018, to appear in the Proceedings of Gravitational Wave Astrophysics: Early Results from Gravitational Wave Searches and Electromagnetic Counterparts. eds. Gabriela Gonzales and Robert Hynes, arXiv181000566V

6. Optical and Near-infrared High-resolution Spectroscopic Observations of Nova V2659 Cyg:
Structure of Nova Ejecta and Origin of Two-distinct Velocity Systems
Akira Arai, H. Kawakita, A. Raj,...et al., 2018, accepted for publication in PoS
(<https://pos.sissa.it/315/053/>)

Abstracts and Circulars

1. High-resolution spectroscopy of Nova Cyg 2014

Raj, Ashish; Munari, U.; Lee, Byeong-Cheol; Kim, Sang Chul; Kim, Sang-Joon; Sim, Chae-Kyung,
The Astronomer's Telegram, 6181

Citations: 05

2. Near-infrared observations of recurrent nova V745 Sco

Banerjee, Dipankar P. K.; Venkataraman, V.; Joshi, Vishal; Raj, Ashish; Ashok, N. M.;
The Astronomer's Telegram, 5865

Citations: 03

3. Near-Infrared photometric observations of Nova Cephei 2013

Raj, Ashish; Banerjee, D. P. K.; Ashok, N. M.; The Astronomer's Telegram, 5026.

Citations: 01

4. Near-IR observations of Nova Scorpii 2012 and Nova Ophiuchi 2012 No. 2

Raj, Ashish; Ashok, N. M.; Banerjee, D. P. K., The Astronomer's Telegram, 4211

Citations: 03

5. Near-IR photometric observations of Nova Ophiuchi 2012 No. 2

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