

# Dr. Arghajit Jana

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## Personal Information

- **Date of Birth**—18-02-1991
  - **Place of Birth** – Kolkata, India

## Current Position

- **Instituto de Estudios Astrofisicos, Universidad Diego Portales**—Santiago, Chile
  - **FONDECYT postdoctoral Fellow** (September 2023 - )

## Research Interest

- Multiwavelength Study of Changing-State AGNs
  - Obscuration Properties of AGNs
  - Coronal Properties of AGNs and BHXBs
  - Disk-Jet Connection of Black Holes
  - X-ray Polarization of Black Holes
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## Research Experience

- **National Tsing Hua University**—Hsinchu, Taiwan  
*Post Doctoral Fellow* (February 2023 – August 2023)
  - **Area of Research** - Active galactic nuclei, High Energy Astrophysics, Accretion disk, X-ray Astronomy
- **Indian Institute of Astrophysics**—Bangalore, India  
*Visiting Researcher* (December 2022 – January 2023)
  - **Area of Research** - Active galactic nuclei, High Energy Astrophysics, Accretion disk, X-ray Astronomy
- **National Tsing Hua University**—Hsinchu, Taiwan  
*Post Doctoral Fellow* (October 2021 – May 2022)
  - **Area of Research** - Active galactic nuclei, High Energy Astrophysics, Accretion disk, X-ray Astronomy
- **Physical Research Laboratory**—Ahmedabad, India  
*Post Doctoral Fellow* (January 2020 – September 2021)
  - **Area of research** - Active galactic nuclei, High Energy Astrophysics, Accretion disk, X-ray pulsar, X-ray Astronomy

- **Indian Centre for Space Physics**—Kolkata, India  
*Junior Research Fellow*(July 2014 – July, 2016)  
*Senior Research Fellow*(July 2016 - December 2019)
    - **Area of research** - High Energy Astrophysics, Accretion disk around black holes, X-ray Astronomy
  - **National Tsing Hua University**—Hsinchu, Taiwan  
*Visiting Research Fellow* (September 2018 – October 2018 )
    - **Area of research** - High Energy Astrophysics, Accretion disk, X-ray Astronomy
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## Telescope Time

- NuSTAR – 1A 0535+262 – 1 × 30 ks – 2020.
- AstroSat– 1A 0535+262 – 1 × 50 ks – 2020.
- AstroSat– 2S 1417–264 – 2 × 30 ks – 2021.
- AstroSat – MAXI J1803–298 – 2 × 50 ks – 2021.
- AstroSat – XTE J2012+381 – 50 ks – 2023.
- uGMRT – Swift J1727.8–3613 – 2023

## Education

- **Indian Centre for Space Physics**—University of Calcutta  
*PhD in Physics (Theoretical)* (July 2014 – December 2019)
    - **Thesis title:** Trend of Accretion Flow Parameters of Outbursting Black Hole Candidates from the Spectral and Timing Properties
    - Thesis submitted – May 2019
    - Degree obtained – February, 2020
  - **St.Xavier’s College (Autonomous) & Bose Institute**—University of Calcutta  
*M.Sc Physics with specialisation in Astro-particle Physics* (August 2011 – June 2013)
    - 63.8 %; First Class
  - **Vivekananda College, Thakurpukur**—University of Calcutta  
*Bachelors in Physics with Honours* (July 2008- June 2011)
    - 60.00 % ; First Class
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## Publication

- **Peer Review Journal:**
  - Published:** 41
  - Accepted:** 0
  - Submitted:** 2
  - In Preparation:** 2
  - Published as First/Single Author:** 17
- **Total Citation:** 592
  - h-index :** 13
  - i-10 index:** 16

- **Conference Proceedings:** 10
  - **Book Chapter:** 1
  - **Other:** 6
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## Skills

- **Astronomical Software Packages:** HEASoft Package
  - **Computer Languages, Computational Packages:**
    - Average Knowledge : Fortran, Python, Mathematica, Matlab, L<sup>A</sup>T<sub>E</sub>X
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## National Exam Qualification

- GATE-2104, Score-494, All India Rank- 380
- NET JRF(UGC), June-2014, Rank-186
- CSIR SRF, April 2018

## Research Fellowship & Grants

- FONDECYT Fellow (ANID, Chile) January 2023

## Conferences & Presentation

- **First Biennial Conference on Astronomy, Astrophysics and Space Science - Exploring the Universe: from Near to Far**—ICSP, Kolkata  
*February, 2024*
  - Exploring Changing-Look Active Galactic Nuclei with Long-term Multiwavelength Observations
- **CATA Meeting 2024: Area 2 & Area 3**—Universidad Andres Bello  
*January, 2024*
  - Multiwavelength Observation of Changing-State AGNs
- **The Santiago AGN workshop: a holistic view of active galaxies**—ESO Vitacura  
*November, 2023*
  - Coronal Properties of Low-Accreting AGNs with the X-ray Observations
- **Astronomical Society of Republic of China (ASROC) Annual Meeting 2023**—National Tsun-Yat Sen University, Kaohsiung, Taiwan  
*May, 2023*
  - Oral Presentation : **Coronal Properties of Low-Accreting AGNs**
- **Astrophysical jets and observational facilities: National perspective**—ARIES, Nainital  
*April, 2021*
  - Poster Presentation : **Heavy Obscuration in NGC 4941**
- **43<sup>rd</sup> COSPAR Assembly**—Sydney, Australia  
*January, 2021*

- Oral Presentation - **New MAXI Transient Black Hole Candidate: Properties of MAXI J1348-630 during its 2019 Outburst**
- **Conference on 5 years of AstroSat—Virtual**  
*January, 2021*
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- **RETCO - IV—Inter University Centre for Astronomy & Astrophysics, Pune, India**  
*April, 2019*
  - Oral Preparation - **Disk-Jet Couplings in Galactic Black Holes**
- **EXPUNIV-2018—S.N. Bose National Centre for Basic Sciences, Kolkata, India**  
*November, 2018*
  - Oral Presentation - **Disk-Jet Connections in Black Holes**
- **42<sup>nd</sup> COSPAR Assembly—Caltech, Pasadena, CA, US**  
*July, 2018*
  - Oral Presentation - **Accretion - Ejection mechanism of MAXI J1836-194 with the TCAF solution**
  - Oral Presentation - **Properties of the 2015 outburst of V404-Cygni from spectral analysis with the TCAF solution**
  - Oral Presentation - **Disk-Jet coupling of black hole sources with the TCAF solution**
  - Poster Presentation - **Accretion - Ejection mechanism of Swift J1753.5-0127 with the TCAF Solution**
- **The INTEGRAL Symposium 2017 : Energetic Time Domain Astrophysics—Venice, Italy**  
*October, 2017*
  - Oral Presentation - **Disk-Jet connections in Black Holes X-Ray Binaries with TCAF Solution**
- **RETCO - III—IIST, Thiruvananthapuram, India**  
*June, 2017*
  - Oral Presentation - **Accretion-Ejection Process of Swift J1753.5-0127 during its 2005 Outburst**
- **XXXV Meeting of Astronomical Society of India—Jaipur, India**  
*March, 2017*
  - Poster Presentation - **Accretion Flow around BHC Swift J1753.5-0127**
- **Wide Band Spectral and Timing Studies of Cosmic X-ray Sources—TIFR, Mumbai, India**  
*January, 2017*
  - Oral Presentation - **X-ray Jet Flux for Black Holes using TCAF Solution**
- **RETCO-II—ARIES, Nainital, India**  
*May, 2015*
  - Poster Presentation - **Spectral and Timing Properties of MAXI J1836-194 during 2011 Outburst**

## Workshop

- **X-ray Observations and Data Analysis of Compact Objects— XXXV Meeting of ASI, Jaipur**  
*March, 2017*
  - Workshop on AstroSat and TCAF
- **Data Analysis & LAXPC Science—TIFR, Mumbai**  
*January, 2017*

- Workshop on AstroSat/LAXPC data analysis

## Visiting & Presentation

- **A&A Division Seminar**—Physical Research Laboratory, Ahmednagar, India  
*March, 2024*
  - Changing-State AGNs: Challenging our Understanding of AGNs
- **DPS Seminar**—IISER Kolkata  
*February, 2024*
  - Exploring Changing-Look AGNs from Long-term Multiwavelength Observations
- **DAASE Semi**—IIT, Indore  
*February, 2024*
  - Changing-Look AGNs: Challenging our understanding of AGNs
- **IEA Seminar**—Universidad Diego Portales, Santiago, Chile  
*October, 2023*
  - Coronal Properties of Low-Accreting Active Galactic Nuclei using XMM-Newton, NuSTAR and Swift Observations
- **AGN Santiago Meeting**—Universidad Andres Bello, Santiago, Chile  
*September, 2023*
  - Coronal Properties of Low-Accreting Active Galactic Nuclei
- **IOA Seminar**—National Tsing Hua University, Hsinchu, Taiwan  
*April 2023*
  - Changing-State AGNs: Accretion Driven Event?
- **IIA Astrophysics Seminar**—Indian Institute of Astrophysics, Bangalore, India  
*January 2023*
  - Exploring the changing-states active galactic nuclei
- **Bose Seminar**—SN Bose National Centre for Basic Sciences, Kolkata, India  
*January 2022*
  - Exploring the Changing-Look AGNs
- **A&A Seminar**—Physical Research Laboratory, Ahmedabad, India  
*December 2020*
  - The 2018 Outburst of Changing-Look AGN NGC 1566
- **A&A Seminar**—Physical Research Laboratory, Ahmedabad, India  
*October 2019*
  - Investigating the Disk-Jet Coupling in Black Holes
- **IISc Seminar**—Indian Institute of Science, Bangalore, India  
*February, 2019*
  - Accretion-Ejection Couplings in Black Holes
- **Astronomy Seminar**—University of Padova, Padova, Italy  
*October, 2017*
  - Disk-Jet Connections in Black Hole X-ray Binaries

## Awards & Honours

- Inspire Scholarship, 2008-2013
- CSIR-Senior Research Fellow, 2018-2019

## Professional Membarship

- Astronomical Society of India, 2020 –

## Collaboration

- SDSS-V – Sloan Digital Sky Survey
- LSST – Vera Rubin Large Synoptic Survey Telescope

## Journal Reviewer

- Astrophysical Journal – (2021 – )
- Nature Communications – (2020 – )
- Monthly Notices in Royal Astronomical Society – (2022 – )
- Astronomy & Astrophysics – (2023 – )

## Proposal Reviewer

- AstroSat
  - NICER
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## PUBLICATIONS IN REFEREED JOURNALS

### Published/Accepted :

1. **Long-term X-ray temporal and spectral study of a Seyfert galaxy Mrk 6** by N. Layek, P. Nandi, S. Naik, N. Kumari, **A. Jana** and B. Chhotaray in *MNRAS*, **528**, **5269** (2024) (DOI: 10.1093/mnras/stae299) (arXiv: 2401.16780), IF: 5.23, Cited: 0.
2. **X-ray Polarization changes with the State Transition in Cygnus X-1** by **A. Jana** and H.-K. Chang in *MNRAS*, **527**, **10837** (2024) (DOI: 10.1093/mnras/stad3961) (arXiv: 2307.14604), IF: 5.23, Cited: 1.
3. **Spectral Properties of GX 339-4 in the Intermediate State Using AstroSat Observation** by **A. Jana**, D. Chatterjee, **A. Jana**, H.-K. Chang, S. Naik, and S. Mondal in *MNRAS*, **527**, **2128**, (2024) (DOI: 10.1093/mnras/stad3192) (arXiv: 2310.10444), IF: 5.23, Cited: 0.
4. **Evolution of low frequency quasi-periodic oscillations in GX 339-4 during its 2021 outburst using *AstroSat* data** by S. Mondal, A. Salgundi, D. Chatterjee, **A. Jana**, H.-K. Chang, and S. Naik *MNRAS*, **526**, **4718** (2023) (DOI: 10.1093/mnras/stad3079) (arXiv: 2303.03742), IF: 5.23, Cited: 2.
5. **Survey of Bare Active Galactic Nuclei in nearby Universe : I. Origin of Soft-Excess** by P. Nandi, A. Chatterjee, **A. Jana**, S. K. Chakrabarti, S. Naik, S. Safi-Harb, and H.-K. Chang in *ApJS*, **269**, **15** (2023) (DOI: 10.3847/1538-4365/acf4f9) (arXiv: 2308.08528), IF: 5.52, Cited: 8.7.
6. **Coronal Properties of Low-Accreting AGNs using Swift, XMM-Newton and NuSTAR Observations** by **A. Jana**, A. Chatterjee, H.-K. Chang, P. Nandi, K. Rubinur, N. Kumari, S. Naik, S. Safi-Harb, and C. Ricci in *MNRAS*, **524**, **4670** (2023) (DOI: 10.1093/mnras/stad2104) (arXiv:2307.07966), IF: 5.23, Cited: 5.
7. **Accretion properties and estimation of spin of galactic black hole candidate Swift J1728.9-3613 with NuSTAR during its 2019 outburst** by S. Heiland, A. Chatterjee, S. Safi-Harb, **A. Jana**, and J. Heyl in *MNRAS*, **524**, **3834** (2023) (DOI : 10.1093/mnras/stad2142) (arXiv:2307.06395), IF: 5.52, Cited: 2.
8. **Investigation of a small X-ray flaring event in NLS1 galaxy NGC 4051** by N. Kumari, **A. Jana**, S. Naik, and P. Nandi, in *MNRAS*, **521**, **54400** (2023) (DOI: : 10.1093/mnras/stad867) (arXiv:2303.11799), IF: 5.23, Cited: 1.
9. **Optical and X-ray studies of Be/X-ray binary 1A 0535+262 during its 2020 giant outburst** by B. Chhotaray, G. K. Jaisawal, N. Kumari, S. Naik, V. Kumar, and **A. Jana**, in *MNRAS*, **518**, **5089** (2023) (DOI: : 10.1093/mnras/stac3354) (arXiv:2211.09491), IF: 5.23, Cited: 4.
10. **Accretion flow properties of MAXI J1910-057/Swift J1910.2-0546 during its 2012-13 outburst** by S. N. Nath, D. Debnath, K. Chatterjee, **A. Jana**, D. Chatterjee, and R. Bhowmick in *Ap&SS*, **71**, **1045** (2023) (DOI : 10.1016/j.asr.2022.08.013) (arXiv:2108.07456) , IF: 1.909, Cited: 6.
11. **Global Accretion Properties of Black Hole X-Ray Binaries: A Phenomenological Perspective** by **A. Jana** in *MNRAS*, **517**, **3588** (2022) (DOI : 10.1093/mnras/stac2939) (arXiv:2210.05283), IF: 5.23, Cited: 4.
12. **Properties of MAXI J1348-630 during Its Second Outburst in 2019** by R. Bhowmick, D. Debnath, K. Chatterjee, **A. Jana**, and S. K. Nath in *Galaxy*, **10**, **95** (2022) (DOI : 10.3390/galaxies10050095) (arXiv:2209.02502), IF: 2.5, Cited: 2.
13. **Broadband X-ray Spectroscopy and Estimation of Spin of the Galactic Black Hole Candidate GRS 1758-258** by **A. Jana**, H.-K. Chang, A. Chatterjee, S. Naik, and S. Safi-Harb in *ApJ*, **936**, **3** (2022) (DOI : 10.3847/1538-4357/ac84dd) (arXiv:2208.01399), IF: 5.52, Cited: 3.

14. [Absorptiob Variability in Highly Obscured AGN NGC 4507](#) by A. Jana, C. Ricci, N. Kumari, S. Naik, and H.-K. Chang in *MNRAS*, **512**, 5942 (2022) (DOI : 10.1093/mnras/stac799) (arXiv:2203.10550), IF: 5.23, Cited: 1..
15. [AstroSat Observation of X-ray Dips and State Transition in the Black Hole Candidate MAXI J1803-298](#) by A. Jana, S. Naik, G. K. Jaisawal, B. Chhotaray, N. Kumari, and S. Gupta in *MNRAS*, **511**, 3922 (2022) (DOI : 10.1093/mnras/stac315) (arXiv:2202.00479), IF: 5.23, Cited: 12.
16. [Evidence of Heavy Obscuration in the Low-Luminosity AGN NGC 4941](#) by A. Jana, S. Naik, and N. Kumari in *JApA*, **43**, 4 (2022) (DOI : 10.1007/s12036-021-09786-4) (arXiv:2111.13508), IF: 1.61, Cited: 1.
17. [NuSTAR and Swift Observation of Extragalactic Black Hole Binaries](#) by A. Jana, S. Naik, D. Chatterjee, and G. K. Jaisawal in *MNRAS*, **507**, 4779 (2021) (DOI : 10.1093/mnras/stab2448) (arXiv:2108:10546), IF: 5.23, Cited: 9.
18. [Broadband X-Ray Observation of Changing-Look AGN NGC 1566 during the 2018 Outburst](#) by A. Jana, N. Kumari, P. Nandi, A. Chatterjee, S. Naik, G. K. Jaisawal, K. Hawashaki and C. Ricci in *MNRAS*, **507**, 687 (2021) (DOI : 10.1093/mnras/stab2155) (arXiv:2107.11127), IF: 5.23, Cited: 12.
19. [AstroSat observations of eclipsing high mass X-ray binary pulsar OAO 1657-415](#) by G. K. Jaisawal, S. Naik, P. R. Epili, B. Chhotaray, A. Jana and P. C. Agrawal in *JApA*, **42**, 72 (2021) (DOI : 10.1007/s12036-021-09701-x) (arXiv:2101.00815), IF: 1.61, Cited: 7..
20. [Detection of X-ray pulsations at the lowest observed luminosity of Be/X-ray binary pulsar EXO 2030+375 with AstroSat](#) by G. K. Jaisawal, S. Naik, S. Gupta, P. C. Agrawal, A. Jana, B. Chhotaray and P. R. Epili in *JApA*, **42**, 33 (2021) (DOI : 10.1007/s12036-021-09699-2) (arXiv:2012.14113), IF: 1.61, Cited: 8.
21. [Complex optical/UV and X-ray variability in Seyfert 1 galaxy Mrk 509](#) by N. Kumari, M. Pal, S. Naik, A. Jana, G. K. Jaisawal, P. Kushwaha in *PASA*, **38**, 42 (2021) (DOI : 10.1017/pasa.2021.41) (arXiv:2107.11994), IF: 6.51, Cited: 5.
22. [AstroSat Observation of Non-Resonant Type-C QPOs in MAXI J1535-571](#) by D. Chatterjee, D. Debnath, A. Jana, Shang, J.-R., S. K. Chakrabarti, H.-K. Chang, A. Banerjee, A. Bhattacharjee, K. Chatterjee, R. Bhowmick, S. K. Nath in *Ap&SS*, **366**, 82 (2021) (DOI : 10.1007/s10509-021-03988-6) (arXiv:2006.09077), IF: 1.909, Cited: 6.
23. [NICER observations of the black hole candidate MAXI J0637-430 during the 2019-2020 outburst](#) by A. Jana, G. Jaisawal, S. Naik, N. Kumari, B. Chhotaray, D. Altamirano, R. A. Remillard, Keith C. Gendreau in *MNRAS*, **504**, 4793 (2021) (DOI : 10.1093/mnras/stab1231) (arXiv:2104.13005), IF: 5.23, Cited: 17.
24. [Jet Properties of XTE J1752-223 During its 2009-2010 Outburst](#) by D. Debnath, K. Chatterjee, D. Chatterjee, A. Jana, S. K. Chakrabarti in *MNRAS*, **504**, 4242 (2021) (DOI : 10.1093/mnras/stab1169) (arXiv:2104.10485), IF: 5.23, Cited: 8.
25. [Accretion Flow Properties of GRS 1716-249 during its 2016-17 Outburst](#) by K. Chatterjee, D. Debnath, D. Chatterjee, A. Jana, S. K. Chakrabarti, S. Nath, and R. Bhowmick in *Ap&SS*, **366**, 63(2021) (DOI: 10.1007/s10509-021-03967-x) (arXiv:2102.02424), IF: 1.909, Cited: 7.
26. [Accretion Properties of Black Hole Candidate MAXI J1813-095 During 2018 Outburst](#) by A. Jana, G. Jaisawal, S. Naik, N. Kumari, D. Chatterjee, S. K. Chakrabarti, H.-K. Chang, D. Debnath in *RAA*, **21**, 125 (2021) (DOI: 10.1088//1674-4527/21/5/125) (arXiv:2104.12924), IF: 1.8, Cited: 11.
27. [Study of Accretion Flow Dynamics of V404 Cyg during its 2015 Outburst](#) by A. Jana, J.-R. Shang, D. Debnath, S. K. Chakrabarti, D. Chatterjee and H.-K. Chang in *Galaxy*, **9**, 39 (2021) (DOI : 10.3390/galaxies9020039) (arXiv:2006.03310), IF: 2.9, Cited: 3.



28. **Properties of Faint X-ray Activity of XTE J1908+094 in 2019** by D. Chatterjee, A. Jana, K. Chatterjee, R. Bhowmick, S. Nath, S. K. Chakrabarti, A. Mangalam, D. Debnath, in *Galaxy*, **9**, **25** (2021) (DOI : 10.3390/galaxies9020025) (arXiv:2104.06453), IF: 2.9, Cited: 5.
29. **Relation Between The Quiescence Phase of GX 339-4 and Its Outbursting Properties** by R. Bhowmick, D. Debnath, K. Chatterjee, S.K. Chakrabarti, S. Nagarkoti, R. Sarkar, D. Chatterjee, and A. Jana in *ApJ*, **910**, **138** (2021) (DOI : 10.3847/1538-4357/abe134 ) (arXiv:2102.02030), IF: 5.52, Cited: 9.
30. **Probing the Nuclear and Circumnuclear Properties of NGC 6300 from X-ray Observation** by A. Jana, A. Chatterjee, N. Kumari, P. Nandi, S. Naik, & D. Patra, 2020, in *MNRAS*, **499**, **5496** (2020) (DOI: 10.1093/mnras/staa2552) (arXiv:2008.08033), IF: 5.23, Cited: 11.
31. **Accretion Flow Evolution of New Black Hole Candidate MAXI J1348-630 During 2019 Outburst** by A. Jana, D. Debnath, D. Chatterjee, K. Chatterjee, S. K. Chakrabarti, S. Naik, R. Bhowmick & N. Kumari, in *ApJ*, **897**, **3** (2020) (DOI: 10.3847/1538-4357/ab9696) (arXiv:2004.03792), IF: 5.52, Cited: 28.
32. **Accretion Flow Properties of XTE J1118+480 During Its 2005 Outburst** by D. Debnath, D. Chatterjee, A. Jana, K. Chatterjee, & S. K. Chakrabarti, 2020, in *RAA*, **20**, **175** (2020) (DOI: 10.1088/1674-4527/20/11/175) (arXiv:2004.02408), IF: 1.8, Cited: 9.
33. **Inference on accretion flow properties of XTE J1752-223 during its 2009-10 outburst** by K. Chatterjee, D. Chatterjee, D. Debnath, A. Jana & S. K. Chakrabarti in *MNRAS*, **493**, **2452** (2020) (DOI: 10.1093/mnras/staa391) (arXiv:2002.04199), IF: 5.23, Cited: 18.
34. **Inference on Disk-Jet Connections of MAXI J1836-194: Analysis with the TCAF Solution** by A. Jana, D. Debnath, S. K. Chakrabarti & D. Chatterjee in *RAA*, **20**, **28** (2020) (DOI: 10.1088/1674-4527/20/3/28) (arXiv:1812.10767), IF: 1.8, Cited: 17.
35. **Evolution of X-ray Properties of MAXI J1535-571: Analysis With The TCAF Solution** by J.-R. Shang, D. Debnath, D. Chatterjee, A. Jana, S. K. Chakrabarti, H.-K. Chang, Y.-X. Yap, C.-L. Chiu in *ApJ*, **875**, **14** (2019) (DOI: 10.3847/1538-4357/ab0c1e) (arXiv:1806.07147), IF: 5.52, Cited: 49.
36. **Properties of the Black Hole XTE J1118+480 with the TCAF Solution in 2000 During its Jet activity induced Outburst** by D. Chatterjee, D. Debnath, A. Jana, and S. K. Chakrabarti in *AP&SS*, **364**, **14** (2019), (DOI: 10.1007/s10509-019-3495-2) (arXiv:1803.09438), IF: 1.909, Cited: 26.
37. **Accretion Flow Properties of Swift J1753.5-0127 during its 2005 outburst** by D. Debnath A. Jana, S. K. Chakrabarti, S. Mondal and D. Chatterjee in *ApJ*, **850**, **92** (2017) (DOI: 10.3847/1538-4357/aa9077) (arXiv:1703.05479), IF: 5.52, Cited: 28.
38. **Properties of X-ray Flux of Jets During 2005 Outburst of Swift J1753.5-0127 Using TCAF Solution** by A. Jana, S. K. Chakrabarti, and D. Debnath in *ApJ*, **850**, **91** (2017) (DOI: 10.3847/1538-4357/aa88a5) (arXiv:1708.08054), IF: 5.52, Cited: 26.
39. **Accretion Flow Properties of MAXI J1543-564 During 2011 Outburst from TCAF Solution** by D. Chatterjee, D. Debnath, S. K. Chakrabarti, S. Mondal, and A. Jana in *ApJ*, **827**, **88-94** (2016) (DOI: 10.3847/0004-637X/827/1/88) (arXiv:1605.06960), IF: 5.52, Cited: 55.
40. **Estimation of the mass of the black hole candidate MAXI J1659-152 using TCAF and POS models** by A. A. Molla, D. Debnath, S. K. Chakrabarti, S. Mondal, and A. Jana in *MNRAS*, **460**, **3163-3169** (2016) (DOI: 10.1093/mnras/stw860) (arXiv:1605.07282), IF: 5.23, Cited: 53.
41. **Accretion Flow Dynamics of MAXI J1836-194 During its 2011 Outburst from TCAF Solution** by A. Jana, D. Debnath, S. K. Chakrabarti, S. Mondal, and A. A. Molla in *ApJ*, **819**, **107-116** (2016) (arXiv:1601.02080) (DOI: 10.3847/0004-637X/819/2/107), IF: 5.52, Cited: 66.

## Submitted/In-preparation :

1. **A study of the 2020 type II giant outburst of the Be X-ray binary 1A 0535+262 with NICER and the FERMI Gamma ray burst monitor** by J. B. Coley, G. K. Jaisawal, Z. Arzoumanian, D. Chakrabarti, B. Chhotaray, F. Furst, K. C. Gendreau, N. Islam, **A. Jana** et al. (2023, in preparation)
2. **Investigating Changing-Look AGNs with Optical and X-ray studies** by **A. Jana**, C. Ricci, H.-K. Chang (2023, in preparation)

## PUBLICATIONS IN JOURNAL PROCEEDINGS

1. **Accretion Flow Properties of three MAXI Black Hole Candidates: Analysis with the TCAF Solution** by D. Debnath, S. K. Chakrabarti, **A. Jana**, D. Chatterjee, A. A. Molla and S. Mondal in the proceeding of *7 years of MAXI : Monitoring X-ray Transients*, Editors: M. Serino, M. Shidatsu, W. Iwakiri, T. Mihara, [p. 81-84 (2017)]
2. **Inflow-Outflow Properties of Accretion Disk around MAXI J1836-194 with TCAF Solution during its 2011 Outburst** by **A. Jana**, D. Debnath, S. K. Chakrabarti, D. Chatterjee, A. A. Molla and S. Mondal in the proceeding of *7 years of MAXI : Monitoring X-ray Transients*, Editors: M. Serino, M. Shidatsu, W. Iwakiri, T. Mihara, [p. 87-88 (2017)]
3. **Possible ASTROSAT observation of transient black hole candidates to study spectral and timing properties with TCAF solution** by D. Debnath, S. K. Chakrabarti, S. Mondal, **A. Jana**, A. A. Molla, and D. Chatterjee in the proceeding of MG14 meeting in July, 2015 at University of Rome "La Sapienza", Rome, Italy. (DOI: 10.1142/9789813226609 0419) [mgm conf., Edited by M. Bianchi, R. T. Jantzen & R. Ruffini; World Scientific, 3283 (2017)]
4. **Evolution of spectral and temporal properties of MAXI J1836-194 during 2011 outburst** by **A. Jana**, D. Debnath, S. K. Chakrabarti, S. Mondal, A. A. Molla and D. Chatterjee in the proceeding of MG14 meeting in July 2015 at University of Rome "La Sapienza", Rome, Italy (DOI: 10.1142/9789813226609 0058) [mgm conf., Edited by M. Bianchi, R. T. Jantzen & R. Ruffini; World Scientific, 1038 (2017)]
5. **Temporal and spectral properties of MAXI J1659-152 during its 2010 outburst** by A. A. Molla, D. Debnath, S. K. Chakrabarti, S. Mondal, **A. Jana** and D. Chatterjee in the proceeding of MG14 meeting in July, 2015 at University of Rome "La Sapienza", Rome, Italy. (DOI: 10.1142/9789813226609 0059) [mgm conf., Edited by M. Bianchi, R. T. Jantzen & R. Ruffini; World Scientific, 1044 (2017)]
6. **Accretion flow dynamics of a few transient black hole candidates from their spectral evolution study using TCAF solution** by D. Debnath, S. K. Chakrabarti, S. Mondal, **A. Jana**, A. A. Molla, and D. Chatterjee in the proceeding of *XIVth Marcel Grossmann (MG14)* meeting in July, 2015 at University of Rome "La Sapienza", Rome, Italy. (DOI: 10.1142/9789813226609 0054) [mgm conf., Edited by M. Bianchi, R. T. Jantzen & R. Ruffini; World Scientific, 1017 (2017)]
7. **Spectral and Temporal Properties of MAXI J1836-194 during 2011 Outburst** by **A. Jana**, D. Debnath, S. Mondal, S. K. Chakrabarti, A. A. Molla and D. Chatterjee in the proceeding of RETCO-II. [ASI Conference Series, 12, 137-138 (2015)] (arXiv:1509.05867)
8. **Estimation of mass of MAXI J1659-152 during its first outburst with TCAF fits** by A. A. Molla, S. K. Chakrabarti, D. Debnath, S. Mondal, **A. Jana** and D. Chatterjee in the proceeding of RETCO-II [ASI Conference Series, 12, 119-120 (2015)]
9. **Characterization of few transient black hole candidates during their X-ray outbursts with TCAF Solution** by D. Debnath, S. Mondal, S. K. Chakrabarti, **A. Jana**, A. A. Molla and D. Chatterjee in the proceeding of RETCO-II [ASI Conference Series, 12, 87-88 (2015)]

10. **Compton cooling and signature of Quasi-Periodic Oscillations for few transient Black Hole candidates** by S. Mondal, S. K. Chakrabarti, D. Debnath, A. A. Molla and **A. Jana** in the proceeding of RETCO-II [ASI Conference Series, 12, 151-152 (2015)]

## Book Chapter

1. **Disk-Jet Connection in Black Holes** by **A. Jana** in the proceeding of *Exploring the Universe: From Near Space to Extra-Galactic, Astrophysics and Space Science*, Springer International Publishing AG, part of Springer Nature, 2018, 53, 299

## Others

1. **uGMRT Monitoring of Swift J1727.8-1613 during the X-ray plateau of its decay phase** by A. Chatterjee, D. Patra, **A. Jana**, N. N. Patra, B. Chhotaray, S. Naik, S. Safi-Harb in *ATel*, **16378**, **1** (2023).
2. **uGMRT observations of the recently discovered black hole X-ray binary candidate Swift J1727.8-3613** by D. Patra, **A. Jana**, N. N. Patra, B. Chhotaray, S. Naik in *ATel*, **16295**, **1** (2023).
3. **AstroSat Observation of X-ray Binary MAXI J1803-298** by **A. Jana**, G. K. Jaisawal, B. Chhotaray, S. Naik, N. Kumari, S. Gupta in *ATel*, **14629**, **1** (2021).
4. **Super-critical accretion onto the Be/X-ray binary pulsar 1A 0535+262 during its 2020 giant X-ray outburst** by G. K. Jaisawal, J. B. Coley, J. Wilms, G. Vasilopoulos, S. Naik, K. C. Gendreau, K. C.; I. Caballero, **A. Jana**, C. Malacaria, M. T. Wolff, Michael, P. Kretschmar, K. Pottschmidt, F. Fuerst in *ATel*, **14227**, **1** (2020).
5. **NICER and NuSTAR observations of the Be/X-ray binary pulsar 1A 0535+262 during the 2020 November giant outburst** by G. K. Jaisawal, S. Naik, K. C. Gendreau, Z. Arzoumanian, **A. Jana**, J. B. Coley, C. Malacaria, G. Vasilopoulos, F. Fuerst, D. Altamirano, K. Pottschmidt, J. Wilms, M. Wolff, D. J. K. Buisson in *ATel*, **14179**, **1** (2020).
6. **Preliminary Result on MAXI J1348-630 using Swift data: Detection of 0.56 Hz QPO and Mass Estimation** by **A. Jana**, D. Debnath, D. Chatterjee, S. K. Chakrabarti, K. Chatterjee, R. Bhowmick in *ATel*, **12505** (2019).

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