
Tek Prasad Adhikari

Nationality: Nepalese

Date of birth: 11 June 1986

Mailing Address:

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Languages: Nepali (Native), English (Fluent)

EDUCATION

- **Doctoral Candidate in Astronomy & Astrophysics** **10/2013 to present**
Nicolaus Copernicus Astronomical Center (CAMK)
Polish Academy of Sciences, Warsaw, Poland
Supervisor: Dr. hab. Agata Rozanska
Thesis: “*Photoionisation simulations as a density diagnostics of the absorbing/emitting plasma in AGNs*”
- **Master of Science in Physics** **2011**
Central Department of Physics, Tribhuvan University, Kathmandu, Nepal
Thesis: “*A new far infrared arc-like filamentary structure nearby planetary nebula NGC 4361*”
Supervisor: Prof. Dr. Binil Aryal
Grade : Distinction
- **Bachelor of Science** **2008**
Majors: Physics, Chemistry and Mathematics
Mechi Multiple Campus, Tribhuvan University, Jhapa, Nepal
Project: “*Construction, fabrication and demonstration of electronic candle*”
Supervisor: Mr. Jhaga Prasad Baral
Grade : First division

WORK EXPERIENCE

- Nicolaus Copernicus Astronomical Center, Warsaw, Poland **10/2013 to present**
Graduate Student/Research Assistant
- Probing Strong Gravity by Black Holes Across the Range of Masses **01/2014 to present**
STRONG GRAVITY - EU FP7-SPACE research project
Consortium Member
- *ATHENA* X-ray telescope science working group SWG2.3 **(04/2016 to present)**
Feedback in local AGN and star forming galaxies
Working Group Member
- Nicolaus Copernicus Astronomical Center, Warsaw, Poland **02-06/2013**
Warm Absorber in AGN from photoionisation models
Summer Research Project (5 months)

REFEREED PUBLICATIONS

- Rozanska, Agata; Bresler, Karol; Beldycki, Bartosz; Madej, Jerzy; **Adhikari, Tek P.**
: *Ultra Luminous X-ray sources - new distance indicators?*, submitted to ApJ 2017, arXiv:1710.02024
- **Adhikari, T. P.**; Rozanska, A.; Hryniewicz, K.; Czerny, B.; Ferland, G. J.
: *On the Intermediate Line Region in AGNs*, Front. Astron. Space Sci. 2017, 4, 19

- Sredzinska, J.; Czerny, B.; Hryniewicz, K.; Krupa, M.; Marziani, P.; **Adhikari, T. P.**; Basak, R.; You, B.; Bilicki, M. : *SALT long-slit spectroscopy of HE 0435-4312: fast change in the Mg II emission line shape*, A & A 2017, Vol. 601, A32, 15pp.
- Różańska, A.; Beldycki, B.; Madej, J.; **Adhikari, T. P.**; You, B. : *The Appearance of Non-Spherical Systems. Application to LMXB*, Acta Astronomica 2017, Vol. 67, no 1, p. 51-62
- Różańska, A.; Kunneriath, D.; Czerny, B.; **Adhikari, T. P.**; Karas, V. : *Multiphase environment of compact galactic nuclei: the role of the nuclear star cluster*, MNRAS 2017, Vol. 464, p.2090-2102
- **Adhikari, T. P.**; Różańska, A.; Czerny, B.; Hryniewicz, K.; Ferland, G. J. : *The Intermediate-line Region in Active Galactic Nuclei*, ApJ 2016, Vol. 831, 68, 9 pp.
- **Adhikari, T. P.**; Różańska, A.; Sobolewska, M.; Czerny, B. : *Absorption Measure Distribution in Mrk 509*, ApJ 2015, Vol. 815, 83, 9 pp.
- Różańska, A.; Mróz, P.; Mościbrodzka, M.; Sobolewska, M.; **Adhikari, T. P.** : *X-ray observations of the hot phase in Sagittarius A**, A& A 2015, Vol. 581, id.A64, 10 pp.
- Czerny, Bożena; Modzelewska, Justyna; Petrogalli, Francesco; Pych, Wojtek; **Adhikari, Tek P.**; et al. : *The dust origin of the Broad Line Region and the model consequences for AGN unification scheme*, AdSpR 2015, Vol. 55, 7, p. 1806-1815
- Różańska, A.; Czerny, B.; Kunneriath, D.; **Adhikari, T. P.**; Karas, V.; Mościbrodzka, M. : *Conditions for thermal instability in the Galactic Centre mini-spiral region*, MNRAS 2014, Vol. 445, 4, p.4385-4394
- Modzelewska, J.; Czerny, B.; Hryniewicz, K.; Bilicki, M.; Krupa, M.; Swieton, A.; Pych, W.; Udalski, A.; **Adhikari, T. P.**; Petrogalli, F. : *SALT long-slit spectroscopy of CTS C30.10: two-component Mg II line*, A& A 2014, Vol. 570, A53, 13 pp.

CONFERENCE PROCEEDINGS

- **Adhikari, T. P.**; Rozanska, A.; Sobolewska, M.; Czerny: *On the warm absorber in AGN outflow*, Proceedings of the Polish Astronomical Society, Vol. 3, pp.239-242
- Różańska, Agata; Gronkiewicz, Dominik; Hryniewicz, Krzysztof; **Adhikari, Tek Prasad**; Rataj, Mirosław; Skup, Konradi: *AGN warm absorption with the ATHENA*, Proceedings of "Polish Astronomical Society", Vol. 3, pp.72-75

PROGRAMMING, SIMULATIONS & DATA REDUCTION SKILLS

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| Computer Skills | • Scientific programming in Python, Fortran, shell scripting |
| Photoionisation Codes | • CLOUDY, TITAN, XSTAR |
| Astronomical Data Reduction Tools | • XSPEC, XMM-Newton: SAS, ALADIN, TOPCAT |

GRANTS, SCHOLARSHIPS & AWARDS

- "Preludium grant" for PhD students awarded by the Polish National Science Center (2017-2018)
- "Young Scientist Award 2016" from Nicolaus Copernicus Astronomical Center, Polish Academy of Sciences
- Nicolaus Copernicus Astronomical Center Grant for Young Researchers (2015 to 2017)
- PhD Scholarship, Nicolaus Copernicus Astronomical Center, Polish Academy of Sciences, Poland (2013 to 2017)

CONFERENCE & SEMINAR PRESENTATIONS

- Poster on “*Absorption measure distribution in AGN : model versus observations*” in an international conference on “The Power of X-ray Spectroscopy” (Warsaw, Poland, September 2017)
- Talk on “*Absorption measure distribution in active galactic nuclei*” in an international conference on “AGN Winds on the Georgia Coast” (Jekyll Island, Georgia, USA, June 2017)
- Talk on “*The nature of Intermediate Line Region in AGNs*” in an international conference on “Quasars at all cosmic epochs” (Padova, Italy, April 2017)
- Talk on “*The Intermediate Line Region in AGNs*” in an international conference on “Shining from the heart of darkness: black hole accretion and jets” (Kathmandu, Nepal, October 2016)
- Poster on “*Modelling the warm absorber in Seyfert galaxy Mrk 509*” in “European Week of Astronomy (EWASS 2016)” (Athens, Greece, July 2016)
- Talk on “*Absorption Measure Distribution in Mrk 509*” in “StrongGravity Consortium Meeting” (Warsaw, Poland, April 2016)
- Talk on “*X-ray absorber in the outflow of active galactic nucleus Mrk 509*” in “7th National Conference on Science and Technology” (Kathmandu, Nepal, April 2016)
- Poster on “*Absorption Measure Distribution for Mrk 509*” in “37th General Assembly of Polish Astronomical Society” (Poznan, Poland, September 2015)
- Poster on “*Thermal instabilities in the centers of galaxies*” in “IAU XXIX general assembly” (Hawaii, USA, August 2015)
- Poster on “*Absorption Measure Distribution for Mrk 509*” in “Xmm Newton workshop : Extremes of Black Holes” (Madrid, Spain, June 2015)
- Talk on “*Warm absorber (WA) structure and Absorption Measure Distribution for Mrk 509*” in “Consortium meeting of StrongGravity” (Rome, Italy, March 2015)
- Seminar talk on “*WA in AGNs and their effect on broad Fe line profile*”, Tribhuvan University, (Kathmandu, Nepal, November 2014)
- Talk on “*Warm absorber (WA) in AGNs and its effect on broad Fe line*” in “Conference of Young Astronomers ICYA” (Torun, Poland, September 2014)
- Talk on “*Warm Absorbers in AGNs and its effect on broad Fe line*” in “7th FERO meeting” (Krakow, Poland, August 2014)
- Talk on “*X-ray observations of the hot phase in SgrA**” in “INAP 2013” (Prague, Czech Republic, December 2013)
- Poster on “*X-ray spectral fitting of SgrA east and SgrA* regions*” in “Prague Synergy conference” (Prague, Czech Republic, November 2013)
- Talk on “*A New Far Infrared Arclike Filamentary Structure Nearby Planetary Nebula NGC 4361*” in the “International Conference on Astrophysics and Cosmology” (Kathmandu, Nepal, March 2012)
- Poster on “*A new far infrared nebula proposed*” in an international conference on “Accretion and Outflow in Black Hole Systems” (Kathmandu, Nepal, October 2010)

SCHOOLS & WORKSHOPS

- Workshop on “Python and Astro-statistics”, 27-30 June 2016, Torun, Poland
- “Cloudy Workshop”, 4-8 May 2015, Nicolaus Copernicus Astronomical Center, Warsaw, Poland
- “AstroGrid-PL workshop”, 25 February 2015, Nicolaus Copernicus Astronomical Center, Warsaw, Poland
- Workshop on “ESO in 2020’s”, 19-22 January 2015, European Southern Observatory, Garching, Germany
- Workshop on “Virtual Observatory Tools and their applications”, 16-18 June 2014, Krakow, Poland
- Workshop on School on “Software Systems for Astronomy”, 7-18 July 2014, Poznan, Poland
- “Cloudy workshop”, 18-22 August 2014, Queen’s University, Belfast, United Kingdom
- Workshop on “Jesienne Warsztaty ALMA”, 22-23 October 2013, Torun, Poland
- “School on Cosmology and Gravitational Waves”, 1-11 December 2011, IUCAA, Pune, India
- “IUCAA school on Gravitation and Astrophysics”, 15-19 March 2011, CTP, Jamia Millia Islamia, New Delhi, India

MISCELLANEOUS

Conference Organisations

- LOC member of the "StrongGravity Consortium Meeting", 13-15 April 2016, Warsaw, Poland
- LOC member of the "International Conference on Astrophysics and Cosmology" 19-21 March 2012, Kathmandu, Nepal

Teaching Experiences

- Physics teacher at Pentagon International College, 08/ 2012 - 01/ 2013 Kathmandu, Nepal
- Astrophysics teacher at Patan Multiple College, 06/2011- 09/ 2012 Lalitpur, Nepal