

# Curriculum Vitae

## Dr. ALI A. TAANI



### PERSONAL:

- **Name:** Ali Abed El-kareem Taani
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- **Fax No.:** +962-5-3530462
- **Current Address:** Physics Department, Faculty of Science, Al -Balqa Applied University, Salt 19117, Jordan.
- **Date and Place of Birth:** 15/07/1982 – Irbid, Jordan.
- **Marital Status:** Married (two children).
- **Website:** <http://www.bau.edu.jo/UserPortal/UserProfile/Wall.aspx?userid=96169>
- **Research gate:** [http://www.researchgate.net/profile/Ali\\_Taani2/](http://www.researchgate.net/profile/Ali_Taani2/)
- **Google Scholar:** <http://scholar.google.com/citations?user=eQB2E9IAAAAJ>
- **Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=36640600900>
- **IAU** <https://www.iau.org/administration/membership/individual/18724/>
- **Academia** <https://al-balqa.academia.edu/AliTaani>
- **My ORCID ID:** <https://orcid.org/0000-0002-1558-1472>

### EDUCATION:

**Jan. 2010 – Feb. 2013: PhD in Physics with major of Astrophysics.** National Astronomical Observatories (NAOC)-University of Chinese Academy of Sciences (UCAS), Beijing, **China**.

*Ranked: 189* according to Shanghai University Ranking-CWUR world University Rankings 2019

Title of dissertation: Studying pulsar formation and evolution via the accretion induced collapse of white dwarfs.

*Research Advisors:* Prof. Chengmin **Zhang** and Prof. Yongheng **Zhao**.

- **Oct. 2004 – Jan. 2008: M.Sc. in Astronomy,** Institute of Astronomy and Space Science-Al al-Bayt University, **Jordan**.

Title of M.Sc. dissertation: Photometric (Optical) Variability of Some Close Binaries.

*Research Advisor:* Dr. Hanna **Sabat**.

- **Oct.2000–June2004: B.Sc.in Physics,** Al al-Bayt University, **Jordan**.

### **GENERAL RESEARCH INTERSETS:**

- Astrophysics and space sciences
- Formation and evolution of binary stellar systems with compact objects.
- Single and binary star evolution.
- Normal and binary Millisecond Pulsars.
- Core Collapse Supernovae (including Accretion-Induced Collapse).
- X-ray binaries.
- The oldest stars in our Galaxy and the Universe by photometric and spectroscopic analyses.

### **LANGUAGES:**

- **Arabic:** Mother Tongue.
- **English:** Excellent spoken and writing.
- **Chinese:** Basics.

### **EMPLOYMENT AND EXPERIENCES:**

- **Sept., 2017 - Present: Assistant Professor**, Physics department, Faculty of Science, Al-Balqa Applied University. Salt, **Jordan**.
- **June 2018-Sep.2018: Visiting Scientist, CAS President's International Fellowship Initiative (PIFI):** Institute of High Energy Physics. Beijing, **China**
- **July- Sept., 2017: Visiting Scientist**, National Astronomical Observatories, **China**.
- **Sept., 2016 - Sept., 2017: Assistant Professor**, Applied Science dept. Aqaba University College, Al-Balqa Applied University, Aqaba, Jordan.
- **Sept., 2015 - Sep., 2016: Visiting Academic-Assistant Professor**, Applied Physics and Astronomy department, University of Sharjah, **United Arab Emirates**.
- **Sept. 15, 2014 - Sept. 1, 2015: Assistant Professor**, Department of Physics, Al-Balqa Applied University. Salt, Jordan.
- **May 15, 2014 - Sept. 15, 2014: Assistant Professor**, Applied Sciences dept. Aqaba University College, Al-Balqa Applied University, Aqaba, Jordan.
- **Sep. 15, 2013 - May 15 2014: Full-time Lecturer**, Applied Sciences dept. Aqaba University College, Al-Balqa Applied University, Aqaba, Jordan.
- **May 2013-Aug. 2013:Part-time lecturer**, Physics department,Yarmouk Uni., Jordan.
- **Nov. 2012 -Feb. 2013; Researcher** NAOC, China.
- **Jan. 2010 - Nov. 2012: Research assistant:** NAOC, China.
- **Jan. 2010 - Nov. 2012: Research assistant:** UCAS, Beijing, China.

- **Sept. 2005 – Jan. 2010:** Teacher: Ministry of Education, Jordan.
  - **Sept. 2006 – Jun. 2007:** Teaching Assistant, Institute of Astronomy and Space Science, Al al- Bayt University, Jordan.
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### **COURSES TAUGHT:**

- Astrophysics and Cosmology.
- Astronomy and Space Sciences.
- Modern Physics
- Thermodynamics
- Waves
- Optics
- Medical Physics.
- General Physics I & II (Phys. 101+102).
- General Physics for Computer Science students.
- General Physics for Medical college students.
- Physics (1+2) for Sea transportation technology students.
- Remedial Physics.
- General Physics lab I & II (Phys. 103+104).

### **Courses Ready to Teach:**

- Atmospheric Physics and Meteorology.
  - General Theory of Relativity.
  - High Energy Astrophysics.
  - Special Topics in Astrophysics.
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### **ADMINISTRATIVE EXPERIENCES and COMMITTEES MEMBERSHIPS:**

- **1/10/2018-1/09/2019:** Member in the University Council as representative of Faculty of Science, Al- Balqa Applied University, Jordan.
  - **1/10/2017-1/10/2018:** Member in the Faculty Council as representative of Basic Science, Faculty of Science, Al-Balqa Applied University, Jordan.
  - **1/10/2017- 1/09/2019:** Member in the Scientific Research Committee, Physics Dept. Al-Balqa Applied University.
  - **1/10/2017- 1/09/2019:** Member in the Physics-Lab Committee, Physics Dept. Al-Balqa Applied University.
  - **1/11/2016 – 1/5/2017:** Chairman of the Library Committee, Aqaba University College, Al-Balqa Applied University, Aqaba.
  - **Sept. 1, 2015 – Aug. 31, 2016:** Member in the Scientific Research Committee, Applied Physics and Astronomy department, College of Science, University of Sharjah, **United Arab Emirates.**
  - **Sept. 1, 2015 – Aug. 31, 2016:** Member in the Physics-Lab Committee, Applied Physics and Astronomy department, College of Science, University of Sharjah, **United Arab Emirates.**
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### **THESES / DISSERTATION SUPERVISION:**

- 1- Modified orbital elements of the two binary systems Hip 114375 and Hip 114576, 2019,** By Ali Al-Shmary. Department of Physics/ Al al-Bayt University. **External examiner.**
  - 2- Physical Parameters of the Visually Close Binary System HIP12552 with Orbital Elements. 2014,** By Mohammad Hani El-mahameed. Department of Physics/Mu'tah University. **External examiner.**
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### **AWARDS AND HONOURS:**

- 1- 2018, Award for the Visiting Scientist,** Institute of High Energy Physics, Chinese Academy of Science, Beijing, **China.**
- 2- 2017, Research Excellence Award,** Al Balqa Applied University, **Jordan.**
- 3- 2015, Honoring for the Visiting Academics,** University of Sharjah, **United Arab Emirates.**
- 4- 2014, Distinguished Speaker Award:** Jordan Astronomical Society, **Jordan.**

### **SCHOLARSHIPS AND GRANTS:**

- 1- CAS President's International Fellowship Initiative (PIFI) 2018:** Chinese Academy of Science, Institute of High Energy Physics Research scholarship recipient. Beijing, **China.**
- 2- Grant from Abdul Hameed Shoman Foundation-Fund for Scientific Research Support,** **Jordan.**
- 3- NAOC fellowship for visiting scientist.** Beijing, July– Sept. 2017. **China**
- 4- Full grant from Al-Balqa Applied University for attending the Frontiers in Theoretical and Applied Physics.** Sharjah. 22 – 25 Feb. 2017. **United Arab Emirates.**
- 5- Full grant from International Astronomical Union for attending the 38<sup>th</sup> International School for Young Astronomers (ISYA),** 21 Aug. – 8 Sep. 2016. **Iran.**
- 6- Full grant from University Jena for visiting researcher: Astrophysical Institute and University Observatory, University Jena, Jena, Aug. – 6 Sep. 2013, Germany.**
- 7- Chinese Academy of Science, Research scholarship recipient (CAS graduate fellowship; 3 years).** Beijing, Jan. 2010 - Jan. 2013. **China.**
- 8- National Astronomical Observatories, Research scholarship recipient (NAOC graduate fellowship; 3 years).** Beijing, Jan. 2010 - Jan. 2013. **China.**
- 9- Grant from Yonsei university for attending the 5<sup>th</sup> Korea-Japan Young Astronomers Meeting,** 22 - 25 Feb. 2012. **Korea.**
- 10- Grant from NAOC for attending the 5<sup>th</sup> Islamic Conference on Astronomy,** 22 - 24 March 2011: **Jordan.**
- 11- Grant from Granada university and NAOC for attending the Azarquiel Summer School in Astrophysics, Granada university, Granada. 3 – 11 July 2010. Spain.**
- 12- Grant from Institute of Astronomy and Space Science (graduate fellowship; 1 year),** June 2006 – May 2007. **Jordan.**
- 13- Grant from International Astronomical Union for attending the International School for Young Astronomers, 2 – 23 July 2004. Morocco.**

## **PARTICIPATION IN SCIENTIFIC MEETINGS/WORKSHOPS:**

### **❖ Oral Presentations and Posters:**

- 10-12 Sep. 2019, **The 1<sup>st</sup> Summer School 2019 in Astrophysics and Space Science**, Regional Centre for Space Science and Technology for Western Asia. Amman-JORDAN.
- 25-28 March 2019, **United Nations Jordan Workshop Global Partnership in Space Exploration and Innovation**, Regional Centre for Space Science and Technology for Western Asia. Amman-JORDAN.
- 26 Feb. 2019, **Physics Seminar** : Physics Department, Al-Balqa Applied.
- 22 Nov. 2018, **Jordan Astronomical Society**. Jordan
- 1-3 May 2018, **12<sup>th</sup> Arab Conference on Astronomy and Space Science**; RJGC , Jordan
- 27– 29 Apr.2017:**Humboldt Kolleg**, Amman, Jordan.
- 22– 25 Feb. 2017: **Frontiers in Theoretical and Applied Physics**. United Arab Emirates.
- 20 Aug.-10 Sep. 2016: **International Summer School for Young Astronomers** , Iran.
- 30July-7 August 2016:**41<sup>st</sup>COSPAR Scientific Assembly**, Istanbul Congress Center Turkey.
- 2-10 August 2014 , **40<sup>th</sup> COSPAR Scientific Assembly**, Moscow, Russia.
- 16–19 June 2014:**The X-ray Universe 2014**, Trinity College Dublin, Ireland.
- 3 – 5 April 2014: **Humboldt College**, Jordan.
- 24-28 March 2014: **Structure and Signals of Neutron Stars, from Birth to Death**, Italy.
- 18 – 20 March 2014: **6<sup>th</sup> Islamic astronomical conference**: Amman-Jordan.
- 26 – 28 Dec. 2012: **Shanghai Astronomical Observatory meeting**, Shanghai, China.
- 20-31Aug 2012: **28<sup>th</sup>General Assembly of International Astronomical Union**. China.
- 14 - 22 July 2012: **39<sup>th</sup> COSPAR Scientific Assembly**, Mysore, India.
- 11 - 15 Oct. 2011: **3rd Galileo-XuGuangqi meeting**. NAOC, Beijing, China.
- 3 – 11 July 2010: **Azarquiel Summer School in Astrophysics**, Granada university, Spain.

### **❖ Conferences/Workshops Attendance:**

- 2-5 may 2019: **The 4<sup>th</sup> International Symposium on Dielectric material and Applications**, Jordan.
- 9-12 Oct. 2018: **9<sup>th</sup> International School of Physics (Nano Materials: Fundamentals and Applications)**, Jordan.
- 7-11 Nov. 2017: **World Science Forum (Science for Peace)**, Dead-Sea, Jordan.
- 26-28 Sep. 2017: **Yarmouk University Scientific Research Symposium**, Jordan.
- 12-14Sep.2017:**1<sup>st</sup> Inter. Conf. on Geospatial Information Management**, Jordan
- 6-8Dec.2016:**2<sup>ed</sup> meeting for Arab Experts on Geographical Names**, RJGC, Jordan.
- 16May2016: **10<sup>th</sup>Annual Scientific Research Forum**, University of Sharjah, Emirates.
- 30 - 31 Jan. 2012: **3<sup>nd</sup> Telescope Access Program Workshop**, NAOC, Beijing, China.
- 5 - 9 Nov. 2012: **Tsinghua Transient Workshop 2012**. Tsinghua University, China.
- 16-17 March 2012: **2<sup>nd</sup> Telescope Access Program Workshop**, NAOC, China.
- 9-11 May, 2011:**Pulsar Physics and the Application of Pulsars Timing**, China.
- 30 Aug. – 3 Sep. 2010: **MODEST-10 (Modeling Dense Stellar Clusters)**, China.
- 15 – 19 Aug. 2010: **General Relativity in Astrophysics**, Hebeh Normal Uni., China.
- 1 - 4 May 2010: **Astrophysics in Compact Systems**, Shan Dong University, China.
- 20–30Sep.2008:**2<sup>ed</sup> International Summer School for Young Astronomers**, Armenia.

- 27 July –1 Aug. 2008: **Summer School in High Energy Astrophysics**, Urbino, Italy.
  - 05 – 15 Sep. 2006: **Summer School in Astronomy "Site Testing"**, Beirut-Lebanon.
  - 16 – 18 Aug. 2006: **4<sup>th</sup> Islamic Conference on Astronomy**, Amman, Jordan.
  - 15–17 Aug. 2005: **7<sup>th</sup> Arab Conference Astronomy and Space Science**, Jordan.
  - 8 June 2004: **Observing historic Transit of Venus**, Hamza Observatory Camp, Jordan.
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❖ **SCIENTIFIC ASSOCIATION AND COMMUNITY SERVICE**

- **Member of International Astronomical Union (IAU) -France.**
  - **Member of Arab Union for Astronomy & Space Sciences (AUASS), Jordan.**
  - **Member of Jordan Astronomical Society (JAS), Jordan.**
  - **Member of Jordanian Physical Society (JPS), Jordan.**
  - **Member of Jordanian Society for history of sciences , Jordan.**
  - **External Reviewer, Astrophysical Journal (ApJ).**
  - **External Reviewer, Physics Letters A Journal.**
  - **External Reviewer, Physics Letters A Natural Science (NS) Journal.**
  - **External Reviewer, Natural Science (NS) Journal.**
  - **External Reviewer, American Journal of Astronomy and Astrophysics (AJAA).**
  - **External Reviewer, Journal of Physics.**
  - **External Reviewer, Journal of Astronomy.**
  - **Technical Program Committee member of the 3rd Conference on Astrophysics and Space Science (APSS 2017) held in Beijing, China, 28 Feb.-March 1, 2016.**
  - **Technical Program Committee member of the 2ed Conference on Astrophysics and Space Science (APSS 2016) held in Bangkok, Thailand, 3-5 Jan., 2017.**
  - **Member in the Technical Committee of The Humboldt Kolleg Jordanian Life Sciences for Sustainable Development, 27– 29 Apr. 2017:, Jordan.**
  - **Member in the Technical Committee of the 1st Inter. Conference on Geospatial Information Management, Jordan, 12-14Sep.2017.**
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## **PUBLICATIONS:**

### **A. Refereed Journals:**

#### **• 2019**

1. **Ali Taani**, Mohammad Mardini and Ahmad Abushattal, The regular dynamics through the finite-time Lyapunov exponent distributions in 3-D Hamiltonian systems, **Astronomische Nachrichten (AN)**, ACCEPTED
2. Mohammad Mardini, Vinicius Placco, **Ali Taani**, Haining Li and Gang Zhao. **Metal-poor Stars Observed with the Automated Planet Finder Telescope. II. Chemodynamical Analysis of Six Low-Metallicity Stars in the Halo System of the Milky Way**, **Astrophysical Journal (ApJ)**, 882, 27
3. Mohammad Mardini, Haining Li, Sofya Alexeeva, Vinicius Placco, Daniela Carollo, **Ali Taani**, Iminhaji Ablimit, Liang Wang, and Gang Zhao. **Metal-poor stars observed with the automated planet finder telescope I. Discovery of six bright Carbon-enhanced metal-poor stars from LAMOST**, **Astrophysical Journal (ApJ)**, 875, 89
4. Shigeyuki KARINO, Kenji NAKAMURA and **Ali TAANI**, **Stellar wind accretion and accretion disk formation: applications to neutron star high mass X-ray binaries**, **Publications of the Astronomical Society of Japan**, Vol. 71, issue 3, P 1-12.
5. **Ali Taani**, Shigeyuki Karino, Liming Song, Mashhoor Al-Wardat, Awni Khasawneh and Mohammad Mardini, **On the possibility of disk-fed formation in supergiant high-mass X-ray binaries**, **Research in Astronomy and Astrophysics** , Vol. 19, issue, 1, 12

#### **• 2017**

6. Yi-Yan Yang, Li Chen, Rong-Feng Linghu, Li-Yun Zhang and **Ali Taani**, **Constraints on the estimation of the radius of double pulsar PSR J0737-3039A and its neutron star nuclear matter composition**, **Chinese Physics Letters (CPL)**, 34, 129701.
7. Zhibin Dai, Paula Szkody, **Ali Taani**, Peter Garnavich and Mark Kennedy, **Quiescent photometric modulations of two low-inclination cataclysmic variables KZGem and TWVir**, **Astronomy and Astrophysics (A&A)**. 606, 45
8. **Ali Taani** and Juan C. Vallejo, **Dynamical Monte-Carlo simulation of 3-D galactic systems in axisymmetric and triaxial potentials**, 2017, **Publications of the Astronomical Society of Australia (PASA)** ), Vol. 34, 24 ( doi:10.1017/pasa.2017.17).

#### **• 2016**

9. **Ali Taani**, **Systematic comparison of initial velocities for neutron stars in different models**, 2016, **Research in Astronomy and Astrophysics (RAA)**, 16,101.

#### **• 2015**

10. **Ali Taani**, **On the distribution of massive white dwarfs and its implication to accretion induced collapse**, **Jordan Journal of Physic (JJP)**, 8, 3, pp. 149-155.
11. **Ali Taani**, **Monte-Carlo Simulation of Neutron Star Orbits in the Galaxy**, **Publications of The Korean Astronomical Society**, vol. 30, pp. 583-584.

- **2014**

12. M. A. Al-Wardat, H Al-Naimiy, **A. Taani**, A Khasawneh, O. Al-Balawi, H. S. Widyana, [Modified physical and geometric parameters of the eclipsing X-ray binary system Centaurus X-3](#), *Astrophysical Bulletin*, Vol. 69, No. 3, pp. 345–349.
13. M. A. Al-Wardat, Yuri Yu. Balega, Nihad A. Yusufand, Ali Taani, Kawther S. Al-Waqfi, Suhail Masday, Vladimir V. Leushion, [Speckle Interferometric Binary System HD375; Is It a Sub-Giant Binary?](#) *Astrophysical Bulletin*, Vol. 69, No. 1, pp. 62–71.

- **2013**

14. **Ali Taani**, Mashhoor Al-Wardat and Awni Khasawneh. [Evolution of Accreting Binary Systems on the Spin-up Line](#), Australian Journal of Basic and Applied Sciences , 7(13): 287

- **2012**

15. **Ali Taani**, Luca Naso, Yingchun Wei, Chengmin Zhang and Yongheng Zhao, [Modeling the Spatial Distribution of Neutron Stars in the Galaxy](#), 2012, Astrophysics and Space Science (ApS&S) Volume 341, Page 601-609, DOI 10.1007/s10509-012-1121-7.
16. **Ali Taani**, Chengmin Zhang, Mashhoor Al-Wardat and Yongheng Zhao, [Investigation of Some Physical Properties of Accretion Induce Collapse in Producing Millisecond Pulsars](#). 2012, Astrophysics and Space Science ApS&S, 340, 147, pp.147-153, DOI 10.1007/s10509-012-1023-8.
17. **Ali Taani**, Chengmin Zhang, and Mashhoor Al-Wardat Yongheng Zhao, [Where do the Progenitors of Millisecond Pulsar come from?](#) 2012, Astronomische Nachrichten (AN) 333, 1, pp.53-59. DOI 10.1002/asna.201111611
18. Yan Cai, **Ali Taani**, YongHeng.Zhao, and Chengmin Zhang, 2012, [Statistics and Evolution of Pulsars' Parameters](#), Chinese Astronomy and Astrophysics 36, 137-147 DOI 10.1016/j.chinastron.2012.04.003.

- **2011**

19. Yan Cai, **Ali Taani**, Wei Wang, YongHeng.Zhao, and Chengmin Zhang, 2011, [Statistics and Evolution of Pulsars' Parameters](#), Acta Astronomica Sinica, Vol. 52, No. 6, pp. 449–459, (in Chinese).
20. Yan Cai, **Ali Taani**, Wei Wang, YongHeng.Zhao, and Chengmin Zhang, 2011, [Fermi Gamma-Ray Pulsars: Spectral and Generation Order Parameters](#), Chinese Physics Letters (CPL). 28, 9702. DOI 10.1088/0256-307X/28/8/089702.
21. C.M. Zhang, Y.Y. Pan, Y.H. Zhao, Y. Cai, J. Wang, Y.C. Wei, **Ali Taani**, and H.X. Yin.2011. [Constrain Neutron Star Mass by the kHz QPO Frequency](#). International Journal of Modern Physics D (IJMPD) 20, 10. DOI 10.1142/S0218271811020135

- **2010**

22. Y.C. Wei, **A.Taani**, Y.Y. Pan, et al. [Neutron Star Motion in the Disk Galaxy](#). 2010. Chinese Physics Letters (CPL). 27, 9801W. DOI 10.1088/0256-307X/27/11/119801
23. Y.-C. Wei, C.-M. Zhang, Y.-H. Zhao...., and **A. Taani**. [The evolution of the z distribution of normal neutron stars in the Galaxy](#). 2010, Astronomische Nachrichten, 331, p.817-828. DOI 10.1002/asna.200911405.



## **B. Proceedings (Refereed conferences):**

### • **2019**

1. **Ali Taani**, Shigeyuki Karino, Liming Song, Mohammad Mardini, Mashhoor Al-Wardat, Ahmad Abushattal, Awni Khasawneh and H. Al-Naimy, [On the wind accretion model of GX 301-2](#), Journal of Physics: Conference Series (JPCS), 1258, 012029
2. A. A. Abushattal, M. A. Al-Wardat, **A. A. Taani**, A. M. Khasawneh, H. M. Al-Naimiy, [Extrasolar Planets in Binary Systems \(Statistical Analysis\)](#), Journal of Physics: Conference Series (JPCS), 1258, 012018
3. Mohammad K. Mardini, Nidal Ershaidat, Mashhoor Al-Wardat, **Ali Taani**, Awni Khasawneh and H. Al-Naimy, [Nucleosynthesis Between Theory and Observations: The Reaction Rates of Fluorine 19 \(19F\) in Sun](#), Journal of Physics: Conference Series (JPCS), 1258, 012024

### • **2017**

4. **Ali Taani** and Awni Khasawneh, [Probing the Accretion Induced Collapse of White Dwarfs in Millisecond Pulsars](#), 2017, Journal of Physics: Conference Series (JPCS), 869, issue 1, 012090.

### • **2018**

5. Ali Taani, [Study of high mass X-ray binary parameters: sample definition and physical properties](#), 2018, 42st COSPAR Scientific Assembly. Pasadena, California, USA, Abstract id. E1.10-66-18.

### • **2016**

6. **Ali Taani**, [Modeling the Effect of Kick Velocity during the Accretion Induced Collapse of White Dwarfs on Binary Pulsars](#), 2016, 41st COSPAR Scientific Assembly. Turkey, Abstract id. E1.17-14-16.

### • **2013**

7. **Ali Taani**, Mashhoor Al-Wardat and Yongheng Zhao, [On the Possibility of Forming Accretion Induced Collapse in Massive Cataclysmic Variables](#), 2013, International Journal of Modern Physics Conference Series 23, 284-288.
8. **Taani**, C.M Zhang, Y.H. Zhao and A. Moraghan, [Deriving fundamental parameters of millisecond pulsars via AIC in white dwarfs](#). IAU Symposium No. 290. (Feeding Compact Objects: Accretion on All Scales) 2013. C.M. Zhang et al. eds. Volume 290, pp. 177-178.
9. Z. Cheng, **A. Taani** and Y.H. Zhao. [Impact of accretion on the statistics of neutron star masses](#). IAU Symposium No. 290. (Feeding Compact Objects: Accretion on All Scales) 2013. C. M. Zhang et al. eds. Volume 290, pp. 195-196.

10. M. A. Al-Wardat, **A. Taani** and M Asplund. [A Method for estimating Parallaxes of VCBS: Modification to Hipparcos Parallaxes Measurements](#), 2013, International Journal of Modern Physics Conference Series 23, 64-73.
11. C. M. Zhang, Y Pan, **Ali Taani**, [Pulsar distributions in the magnetic and spin period diagram](#). 2013. International Journal of Modern Physics: Conference Series 23, 165-169.
12. Z Cheng, C. M. Zhang, **Ali Taani**. [Monte Carlo simulation of neutron stars masses](#). 2013. International Journal of Modern Physics: Conference Series 23, 157-160.
13. Long Jiang, Cheng-min Zhang, **Ali Taani**, Hai-Hui Zhao, Characteristic Age and True Age of Pulsars, 2013, International Journal of Modern Physics Conference Series 23, 95-98.
14. M. Zhang; Y. Y. Pan; J. Wang, J.; **A. Taani**; Y. H. Zhao. [kHz QPO Observations and Pulsar Parameters](#). 2012, International Journal of Modern Physics (IJMPS): Conference Series. vol. 12, issue 01, p. 414-418. DOI 10.1142/S2010194512006630.

## **2012**

15. M. Zhang, Jin Wang, H. X. Yin, Yongheng Zhao and **Ali Taani**, [kHz QPOs and Their Relations to Spin Frequencies of Neutron Stars](#). Proceedings of the Twelfth Marcel Grossmann Meeting on General Relativity, 2012, 1, 964.

### **C. Submitted or in Preparation:**

- 1) **Ali Taani**, Awni Khasawneh, Ahmad Abushattal, Mohammad Mardini, Mashhoor.A. Al-Wardat. Probability Distribution of Magnetic field strength through the Cyclotron Lines in High-Mass X-ray Binaries, Jordan Journal of Physic (JJP), **Under review**.
- 2) J. A. Docobo, H. A. Al-ameryeen, M. A. Al-Wardate, **A. A. Taani** and M. Khasawnehh Astronomy and Space Science in the Arab World: Part I. (Activities and Organizations) in The Modern Times. **To be submitted**.
- 3) J. A. Docobo, H. A. Al-ameryeen, M. A. Al-Wardat, **A. A. Taani** and M. Khasawnehh. Astronomy and Space Science in the Arab World: Part II. Education, Scientific Research and Future Outstanding Projects in The Modern Time. **To be submitted**.
- 4) M. Abu-Saleem and **A. Taani**, Retraction and folding on the hyperbolic black holes, **To be submitted**.
- 5) **Ali Taani**, Iminhaji Ablimit, Chengmin Zhang, Alexander Tutukov, Youngheng Zhao and Mohammad Mardini, The Effect of Kick Velocity during the Accretion Induced Collapse of White Dwarfs and Binary Pulsars, **To be submitted**.
- 6) Yi-Yan Yang, Li Chen, Rong-Feng Linghu, Na Wang, **Taani Ali** and Shuang-Qiang Wang. Discuss of double neutron star classification method by forming. (**To be submitted**).
- 7) **A. Taani**, S Karino, L Song, C. M. Zhang, S Chaty, A New Set of Parameters of High-Mass X-ray Binaries Found with their Cyclotron Lines. (**To be submitted**).
- 8) Precise mass and orbital parameters of the binary systems hip11352, hip70973, and hip72479 using GAIA parallaxes, Yamam M. Al-Tawalbeh, **Ali A. Taani**, Ahmad A. Abushattal, Hamid M. Al-Naimiy, Awni M. Khasawneh, Mashhoor.A. Al-Wardat. (**To be submitted**).

❖ **REFERENCES**

- **Prof. Liming Song**  
Institute of High Energy Physics, Chinese Academy of Sciences 19B YuquanLu,  
Shijingshan District, Beijing 100049, China.  
E-mail: [songlm@ijep.ac.cn](mailto:songlm@ijep.ac.cn) <http://www.ihep.ac.cn/lt/songlm>
- 
- **Prof. Chengmin Zhang**  
National Astronomical Observatories (NAOC), Chinese Academy of  
Sciences, Datun Road 20A, Chaoyang District Beijing 100012, China.  
E-mail: [zhangcm@bao.ac.cn](mailto:zhangcm@bao.ac.cn) <http://www.bao.ac.cn/lt/zhangcm>
- **Prof. Yongheng Zhao**  
National Astronomical Observatories (NAOC), Chinese Academy of  
Sciences, Datun Road 20A, Chaoyang District Beijing 100012, China.  
E-mail: [yzhao@bao.ac.cn](mailto:yzhao@bao.ac.cn) <http://www.lamost.org/~yzhao>
- **Prof. Mashhoor A. Al-Wardat**  
Physics department, Faculty of Science, Al-al Bayt University- Jordan.  
E-mail: [mwardat@yahoo.com](mailto:mwardat@yahoo.com), [mwardat@aabu.edu.jo](mailto:mwardat@aabu.edu.jo)
- **Prof. Marwan S. Mousa**  
Dept. of Physics, Mu'tah University, Al-Karak, Jordan  
E-mail: [mmmousa@mutah.edu.jo](mailto:mmmousa@mutah.edu.jo), [marwansmousa@yahoo.com](mailto:marwansmousa@yahoo.com)

Dr. Ali Taani Nov. 20, 2019



ALI TAANI