



Ahmad Ali Abushattal C.V.



CURRICULUM VITAE

Ahmad Ali Abushattal

June 2021



PERSONAL

Place of Birth Jordan
Date of Birth April 8, 1987
Marital Status Married
Nationality Jordanian
Work Address Department of Physics, College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan. Phone: +962-3-2179000 Ext.: 6203, E-mail: a.abushattal@ahu.edu.jo
Academic Rank (date) Assistant Professor (2017)
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ACADEMIC QUALIFICATIONS

2013 - 2017 Ph.D., Astrophysics and Space Sciences , University of Santiago de Compostela , Santiago de Compostela , Spain
2010 - 2013 M.Sc., Physics , Mutah University, Al-Karak, Jordan
2005 - 2009 B.Sc., Physics , Al-Hussein Bin Talal University, Maan, Jordan

SPECIALTY

General Specialization: Astrophysics and Space Sciences
Specialization : Astrodynamics

CAREER HISTORY

August 2017 -Present Assistant Professor, Department of physics , College of Science, Al-Hussein Bin Talal University, Ma'an, Jordan.



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ADMINISTRATIVE EXPERIENCE _____

Positions

September 2019 - April 2020 Chairman of Radiology Department, College of Science,
Al-Hussein Bin Talal University, Ma'an, Jordan

PROFESSIONAL MEMBERSHIPS AND SERVICES _____

Membership(s)

- International Astronomical Union (IAU).
- Arab Union for Astronomy and Space Sciences (AUASS).
- The Jordanian Astronomical Society (JAS)

RESEARCH INTEREST _____

- Spectroscopic Binaries
- Exoplanetology
- Computational modelling

PUBLICATIONS _____

Peer-reviewed journal articles

- Yamam M. Al-Tawalbeh, Abdallah M. Hussein, Ali A. Taani, Abushattal, A. A., Nihad A. Yusuf, Mohammad K. Mardini, Hamid M. Al-Naimiy, Awni M. Khasawneh, Mashhoor. A. Al-Wardat. "Precise masses, ages and orbital parameters of the binary systems HIP 11352, HIP 70973, and HIP72479" *Astrophysical Bulletin*. (Q3) 2020, .



- Abushattal, A. A., José A. Docobo, M. Al-Wardat, Ali Taani, and Pedro P. Campo,. “A Spectroscopic-Interferometric Analysis, Individual Masses and The Coplanarity of high-eccentricity Hierarchical Triple System 24 AQUARI, HD 206058", In preparation.
- A. Taani, M. Mardini, Abushattal, A. A., A. Khasawneh and M. Al-Wardat. “Probability Distribution of Magnetic Field Strengths through the Cyclotron Lines in High-Mass X-ray Binaries". The Jordan Journal of Physics, (Q4) 2020.
- Abushattal, A. A., José A. Docobo, and Pedro P. Campo,. “The Most Probable 3D Orbit for Spectroscopic Binaries". The Astronomical Journal, (Impact factor: 5.6, Q1) 2020.
- Ali Taani, Abushattal, A. A., Mohammad K Mardini “The regular dynamics through the finite-time Lyapunov exponent distributions in 3D Hamiltonian systems". Astronomische Nachrichten . (Impact factor 1.06 Q2) 2019
- Ali Taani, Shigeyuki Karino, Liming Song, Mohammad Mardini, Mashhoor Al-Wardat, Abushattal, A. A., Awni Khasawneh, and Hamid Al-Naimiy “On the wind accretion model of GX 301-2". Journal: Journal of Physics: Conference Series . (Q3) 2019.
- M.A. Al-Wardat, J.A. Docobo, Abushattal, A. A., and P.P. Campo. “Physical and Geometrical Parameters of CVBS. XII. Fin 350 (HIP 64838)". Journal: Astrophysical Bulletin . (Impact factor 1.02, Q3) 2017.
- J.A. Docobo, R.G. Griffin, P.P. Campo, and Abushattal, A. A.. “Precise orbital elements, masses and parallax of the spectroscopic interferometric binary HD 26441". Monthly Notices of the Royal Astronomical Society, (Impact factor: 4.95, Q1) 2017.

CONFERENCES AND PROCEEDINGS

- Abushattal, A. A., “Extrasolar planets in spectroscopic binary systems: Stability and Habitability,” The 12th Arab Conference for Astronomy and Space Science, The Royal Jordanian Geographic Center, Jordan. May, 2018.
- Abushattal, A. A., “ CORAVEL Radial Velocity Observations at Cambridge Observatory, UK.” The 12th Arab Conference for Astronomy and Space Science, The Royal Jordanian Geographic Center, Jordan. May, 2018.
- Abushattal, A. A., J. A. Docobo, P. P. Campo, M. Al-Wardat, “ What spectroscopic binaries can we resolve with a specific telescope?.” XVII Jornadas de Trabajo en



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Mecánica Celeste, Santiago de Compostela , Ramon Maria Aller Observatory, Spain. 25-27 July, 2018. 2 of 6

- **Abushattal, A. A., J. A. Docobo, P. P. Campo, M. Al-Wardat, “ The observations of spectroscopic binaries.” Second International Conference on Arabs’ and Muslims’ History of Science, Santiago de Compostela , University of Sharjah, Sharjah, UAE. December, 2014.**

TEACHING

Courses Taught-undergraduate

During My Career as an assistance professor, I taught the following courses:

- **Introduction to astronomy**
- **Astrophysics**
- **Heat and Waves**
- **General Physics I**
- **Physics Of Human body**
- **Physics for Computer Science Students**
- **General Physics Lab I**
- **General Physics II**
- **Electronics Circuit Lab**
- **Optics Lab**
- **Thermodynamics physics lab**
- **Advanced Physics Lab**
- **Graduation Research Project**

SKILLS

Languages

- **Arabic (Native)**
- **English (Excellent)**



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- **Spanish (Very Good)**

Computer Programming Languages and Programs

- **C++**
- **MATLAB**
- **Mathematica**
- **Python**