







## 4- Astronomy Department

### 4-2 Stellar Laboratory

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#### \* Scientific Publication (National & International)

1. Pathak N., Abouelmagd E. I. Higher Ordered Resonant Periodic Orbits in Perturbed Sun-Mars System. Research & Reviews: Journal of Physics (2019) 8 (2): 130-136.
2. Pathak N., Abouelmagd E. I., Thomas V. O. On higher order of resonant periodic orbits in the photogravitational restricted three body problem. The Journal of the Astronautical Sciences (2019) 66 (4), 475 –505.
3. Abouelmagd E. I., Ansari A. A. The motion properties of the infinitesimal body in the framework of bicircular Sun perturbed Earth-Moon system. New Astronomy (2019) 73: 101282.
4. Suraj M. S., Abouelmagd E. I., Aggarwal R., Mittal A. The analysis of restricted five-body problem within frame of variable mass. New Astronomy (2019) 70: 12 – 21.
5. Abouelmagd E. I., Guirao J. L.G., Llibre J. Periodic orbits for the perturbed planar circular restricted 3-body problem. Discrete and Continuous Dynamical Systems - Series B (DCDS-B) (2019) 24 (3) 1007 – 1020.
6. Pathak N., Thomas V. O., Abouelmagd E. I. The photogravitational restricted three-body problem: Analysis of resonant periodic orbits. Discrete and Continuous Dynamical Systems - Series S (DCDS-S) (2019) 12 (4&5), 849 – 875.
7. Selim H. H., Guirao J. L.G., Abouelmagd E. I. Libration points in the restricted three-body problem: Euler angles, existence and stability. Discrete and Continuous Dynamical Systems - Series S (DCDS-S) (2019) 12 (4&5): 703 – 710.

#### \* Reviews of Papers (National & International)

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|---|------------|
| 1. Chaos, Solitons & Fractals                     | Elsevier   |
| 2. Few-body Systems                               | Springer   |
| 3. Astrophysics Space Science                     | Springer   |
| 4. International Journal of Bifurcation and Chaos | World Sci. |
| 5. Advances in Space Research                     | Elsevier   |
| 6. Physics Letters A                              | Elsevier   |
| 7. International Journal of Non-Linear Mechanics  | Elsevier   |
| 8. Journal of Astrophysics & Astronomy            | Springer   |
| 9. Celestial Mechanics and Dynamical Astronomy    | Springer   |
| 10. Open Physics De                               | Gruyter    |
| 11. New Astronomy                                 | Elsevier   |

#### \* Conferences, Scientific Missions & Workshops

- A member of Organization Committee of The fourth ArAs School for Astrophysics, Oct. 19 - 26, 2019, Kottamia Astronomical Observatory, Cairo – Egypt  
<http://awsa.ar-as.org/sfa4/committees.html>
- Artificial Intelligence and Recent IT Technologies Impact for Building Egyptian Knowledge and Innovation Society, First International Conference, 8 – 9 Sep 2019. Cairo – Egypt
- A member of International Scientific Committee of An International Conference on Physics, Society and Technology (ICPST), Jan 17-19, 2019, in University of Delhi, Delhi – India <http://www.icpst2019.com/>

#### \* Projects

1. Modeling of science and engineering problems through dynamical systems. P. I.: Juan Luis García Guirao (Email: [juan.garcia@upct.es](mailto:juan.garcia@upct.es)) Co. I. Elbaz I. Abouelmagd Period: July, 2019 – March, 2022. Reference: 20783/PI/18. Source: Fundación Séneca (Spain).