Publications

1. Dhwani Sheth, V. O. Thomas, Elbaz I. Abouelmagd and Vineet K. Srivastava : Fifth order solution of halo orbits via Lindstedt–Poincaré technique and differential correction method. *New Astronomy* **87** (2021): 101585. doi: https://doi.org/10.1016/j.newast.2021.101585

2. Dhwani Sheth and V. O. Thomas : Effects of mass ratio on halo orbits about L_1 and L_2. *AIP Conference Proceedings* **2451** 1 (2022): 020040. doi: https://doi.org/10.1063/5.0095250

3. Dhwani Sheth and V. O. Thomas : Halo orbits around L_1, L_2, and L_3 in the photogravitational Sun–Mars elliptical restricted three-body problem. *Astrophysics and Space Science* **367** 10 (2022): 1-20.
doi: https://doi.org/10.1007/s10509-022-04130-w

4. Dhwani Sheth, V. O. Thomas, Niraj M. Pathak and Elbaz I. Abouelmagd : Analysis of exterior resonant periodic orbits in the photogravitational ERTBP. *Archive of Applied Mechanics* **93** 5 (2023): 2097-2112. doi: https://doi.org/10.1007/s00419-023-02374-8

5. Dhwani Sheth, Niraj M. Pathak, V. O. Thomas and Elbaz I. Abouelmagd : Periodic Orbits Analysis of Elliptical Sun-Saturn System. *Astronomy Reports* **67** 5 (2023): 520-535. doi: https://doi.org/10.1134/S1063772923050104

6. Dhwani Sheth and V. O. Thomas: First order interior resonant orbits in photogravitational Sun-Saturn ERTBP, is communicated for publication.