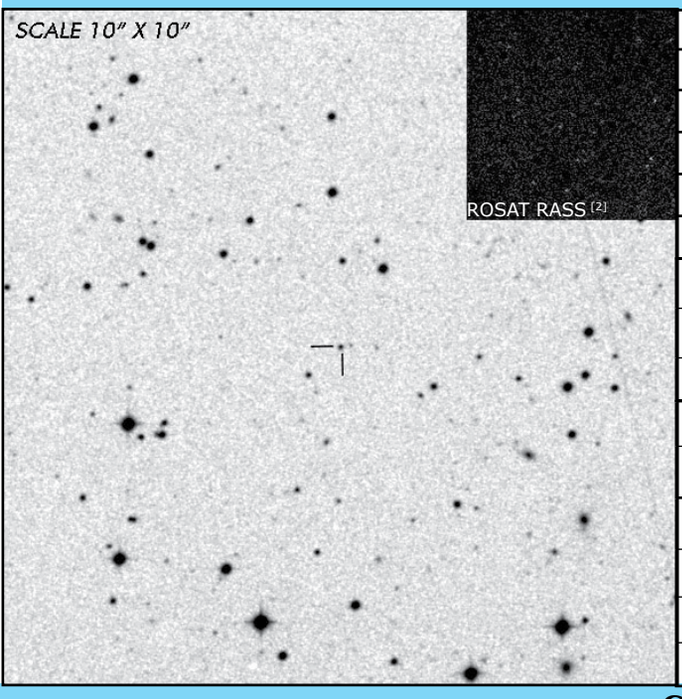
J0503.7-2819

Short Period Transitional Intermediate Polar

OBSERVATION DATA



OTHER NAME(S): PPMXL 2431202680279124324; 1RXS J050350.6-282324			
FOUND: SWIFT BAT 2015			
RIGHT ASCENSION [1]	$05^h\ 03^m\ 49.254^s$	**DECLINATION** [1]	-28° 23' 08.308"
PARALLAXES (*mas*) [1]	1.1422 ± 0.086	**DISTANCE (*pc*)** [2]	837.0
DISTANCE BOUNDARIES (pc) [2]		Lower = 794.0	Upper = 897.0
W_D MASS ($M_\odot$)	0.54	**MAGNETIC FIELD (*MG*)**	...	...

ORBITAL PERIOD (P_O) [3]			**SPIN PERIOD (P_S)** [3]		
DAYS	**HOURS**	**MINUTES**	**HOURS**	**MINUTES**	**SECONDS**
0.06835	1.6404	98.4223	1.5616	93.6983	5621.9

OPTICAL (CRTS MAGNITUDE)			
...	...	...	...

OTHER INFORMATION	
$Temp_{WD}$ = 18,300 ± 5,800 K	

SUMMARY

CRTS PHOTOMETRY

EXTERNAL LINKS

STScI Sky Survey

SIMBAD

REFERENCES

[1] Baumgartner, W. H. et al. 2013, "The 70 month Swift-BAT all-sky hard X-ray survey.", ApJ Supplement, Vol. 207, Iss. 2, pp. 22
[2] Halpern, J. P. 2022, "Swift J0503.7-2819: a Short-period Asynchronous Polar or Stream-fed Intermediate Polar", ApJ, Vol. 934, Iss. 2, pp. 8
[3] Littlefield, Colin et al. 2023, "Kepler K2 and TESS Observations of Two Magnetic Cataclysmic Variables: The New Asynchronous Polar SDSS J084617.11+245344.1 and Paloma", AJ, Vol. 165, Iss. 2, pp. 14
[4] Halpern, J. P. 2024, "Resolving the Periods of the Asynchronous Polar 1RXS J083842.1-282723", ApJ, Vol. 963, Iss. 2, pp. 11
[5] Rawat, Nikita et al. 2022, "SWIFT J0503.7-2819: A Nearly Synchronous Intermediate Polar Below the Period Gap?", MNRAS, Vol. 517, Iss. 2, pp. 1667-1677
[6] Halpern, Jules P. et al. 2015, "Optical Studies of 13 Hard X-Ray Selected Cataclysmic Binaries from the Swift-BAT Survey", Vol. 150, Iss. 6, pp. 14
[7]
[8]

Intermediate Polar
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