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## MPEC 2019-T82 : COMET P/2019 S3 (PANSTARRS)

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### COMET P/2019 S3 (PANSTARRS)

This object was reported as cometary based on Pan-STARRS 1 (F51) discovery images on Sept. 25 UTC by S. Chastel and R. Wainscoat. The object had FWHM of 2".1 in three stacked w-band images, which is larger than than of neighbouring stars at 1".74 +/- 0".08. The tail extended West for 8". Further confirmation are mentioned in the table below:

OC	Date	Observer(s)	Coma	Tail	Exp.
Q62	20190926	H. Sato	3x8", elongated	10", P.A. 160	16 x 60s
691	20190930	R. S. McMillan	9"	12", P.A. 272	10 x 120s
F51	20190930	R. Weryk	2"	tail West	

#### Observations:

PK19S030	C2019 08 27.55885	02 10 52.229+04	29 16.87	21.5	WJET082F52
PK19S030	C2019 08 27.57050	02 10 52.949+04	29 13.58	21.5	WJET082F52
PK19S030	C2019 08 27.58225	02 10 53.689+04	29 10.82	21.6	WJET082F52
PK19S030	C2019 08 27.59401	02 10 54.452+04	29 08.01	21.5	WJET082F52
PK19S030	C2019 09 04.40076	02 18 44.34 +03	50 05.2	20.4	GVET082G96
PK19S030	C2019 09 04.40604	02 18 44.60 +03	50 03.3	20.7	GVET082G96
PK19S030	C2019 09 04.41128	02 18 44.88 +03	50 01.5	20.9	GVET082G96
PK19S030	C2019 09 04.41652	02 18 45.12 +03	49 59.4	20.4	GVET082G96
PK19S030	C2019 09 07.58129602	21 22.273+03	30 29.47	19.6	GVET082F51
PK19S030	C2019 09 07.59327902	21 22.780+03	30 24.96	19.8	GVET082F51
PK19S030	C2019 09 07.60959002	21 23.430+03	30 18.68	20.0	GVET082F51
PK19S030*	C2019 09 25.53553	02 29 40.035+01	08 07.18	20.7	WJET082F51
PK19S030	C2019 09 25.54826	02 29 40.095+01	08 00.48	20.8	WJET082F51
PK19S030	C2019 09 25.56101	02 29 40.156+01	07 53.45	20.7	WJET082F51
PK19S030	KC2019 09 26.04835402	29 44.12 +01	03 26.5	20.7	GVET082L01
PK19S030	KC2019 09 26.05069102	29 44.19 +01	03 25.4	21.1	GVET082L01
PK19S030	C2019 09 26.53752	02 29 47.505+00	59 04.85	20.8	WJET082F51
PK19S030	C2019 09 26.55064	02 29 47.531+00	58 57.64	20.4	WJET082F51
PK19S030	C2019 09 26.56372	02 29 47.565+00	58 50.58	20.5	WJET082F51
PK19S030	C2019 09 26.57670	02 29 47.586+00	58 43.44	20.5	WJET082F51
PK19S030	1C2019 09 26.63666	02 29 48.30 +00	58 19.5		VET082Q62
PK19S030	1C2019 09 26.64199	02 29 48.33 +00	58 16.3	20.4	GVET082Q62
PK19S030	C2019 09 27.53248002	29 52.833+00	50 02.91	20.41	GVET082F51
PK19S030	HC2019 09 29.38793	02 29 57.26 +00	33 04.3	20.0	RoET082691
PK19S030	HC2019 09 29.39900	02 29 57.26 +00	32 58.9	19.9	RoET082691
PK19S030	KC2019 09 29.96963	02 29 57.60 +00	27 44.3	19.7	RcET082J57
PK19S030	KC2019 09 29.97987	02 29 57.59 +00	27 38.9	20.0	RcET082J57
PK19S030	KC2019 09 29.98486	02 29 57.58 +00	27 36.1	20.1	RcET082J57
PK19S030	KC2019 09 30.43619	02 29 56.64 +00	23 28.2		oET082291
PK19S030	KC2019 09 30.45062	02 29 56.59 +00	23 19.8		oET082291
PK19S030	KC2019 09 30.46505	02 29 56.53 +00	23 12.0		oET082291
PK19S030	C2019 09 30.49629402	29 56.803+00	22 56.56	20.0	GVET082F51
PK19S030	C2019 09 30.52346202	29 56.640+00	22 41.56	20.1	GVET082F51
PK19S030	KC2019 09 30.89057	02 29 56.25 +00	19 14.6	19.7	RVET082K61
PK19S030	KC2019 09 30.89433	02 29 56.16 +00	19 12.5	19.4	RVET082K61
PK19S030	C2019 10 02.39027	02 29 49.94 +00	05 34.3		oET082711
PK19S030	C2019 10 02.39352	02 29 49.83 +00	05 32.5		oET082711
PK19S030	C2019 10 02.39697	02 29 49.86 +00	05 30.4		oET082711
PK19S030	C2019 10 02.44426	02 29 49.54 +00	05 02.8	20.2	GVET082G96
PK19S030	C2019 10 02.44940	02 29 49.53 +00	05 00.2	20.1	GVET082G96
PK19S030	C2019 10 02.46045	02 29 49.43 +00	04 53.7	20.1	GVET082G96
PK19S030	C2019 10 02.46560	02 29 49.44 +00	04 51.0	20.0	GVET082G96

PK19S030 KC2019 10 04.04759402 29 38.71 -00 09 38.5 20.3 GVET082L01  
PK19S030 KC2019 10 04.05072902 29 38.70 -00 09 40.2 20.3 GVET082L01  
PK19S030 pC2019 10 04.05309002 29 38.67 -00 09 41.0 20.5 GVET082L01

Observer details:

291 LPL/Spacewatch II. Observer J. V. Scotti. 1.8-m f/2.7 reflector + CCD.  
691 Steward Observatory, Kitt Peak-Spacewatch. Observer J. V. Scotti. 0.9-m f/3 reflector + CCD.  
711 McDonald Observatory, Fort Davis. Observers J. G. Ries, J. W. Kuehne. Measurer J. G. Ries. 2.1-m reflector + CCD + focal reducer.  
F51 Pan-STARRS 1, Haleakala. Observers J. Bulger, K. Chambers, T. Lowe, E. Magnier, A. Schultz, M. Willman. Measurers S. Chastel, M. Huber, Y. Ramanjooloo, R. Wainscoat, R. Weryk, K. Chambers, T. de Boer, L. Denneau, J. Fairlamb, H. Flewelling, C.-C. Lin, E. Magnier. 1.8-m Ritchey-Chretien + CCD.  
F52 Pan-STARRS 2, Haleakala. Observers J. Bulger, T. Dukes, T. Lowe, A. Schultz, M. Willman. Measurers K. Chambers, S. Chastel, T. de Boer, L. Denneau, J. Fairlamb, H. Flewelling, M. Huber, C.-C. Lin, E. Magnier, Y. Ramanjooloo, R. Wainscoat, R. Weryk. 1.8-m Ritchey-Chretien + CCD.  
G96 Mt. Lemmon Survey. Observer H. Groeller. Measurers B. M. Africano, E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, T. A. Pruyne, D. Rankin, R. L. Seaman, F. C. Shelly. 1.5-m reflector + 10K CCD.  
J57 Centro Astronomico Alto Turia, Valencia. Observers G. Fornas, A. Carreno, V. Mas. Measurers E. Arce, L. Rivas, P. Rosillo, S. Crespo.  
K61 Rokycany Observatory. Observer M. Adamovsky. 0.51-m f/6.8 reflector + CCD.  
L01 Visnjan Observatory, Tican. Observers K. Korlevic, F. Valentine. Measurer K. Korlevic. 1.0-m f/2.9 reflector + CCD.  
Q62 iTelescope Observatory, Siding Spring. Observer H. Sato. 0.51-m f/6.8 astrograph + CCD + f/4.5 focal reducer.

Orbital elements:

P/2019 S3 (PANSTARRS)  
Epoch 2019 Aug. 25.0 TT = JDT 2458720.5  
T 2019 Aug. 26.07844 TT Veres  
q 1.8066638 (2000.0) P Q  
n 0.15633610 Peri. 212.94296 +0.99542062 -0.05904281  
a 3.4126876 Node 150.16676 +0.07749008 +0.95890667  
e 0.4706038 Incl. 8.69175 -0.05597388 +0.27751026  
P 6.30  
From 45 observations 2019 Aug. 27-Oct. 4, mean residual 0".6.

P/2019 S3 (PANSTARRS)  
Epoch 2025 Dec. 31.0 TT = JDT 2461040.5  
T 2025 Dec. 18.65490 TT Veres  
q 1.8068935 (2000.0) P Q  
n 0.15631086 Peri. 213.12784 +0.99528300 -0.06115366  
a 3.4130549 Node 150.10313 +0.07956649 +0.95870938  
e 0.4705935 Incl. 8.69047 -0.05550601 +0.27773467  
P 6.31  
From 45 observations 2019 Aug. 27-Oct. 4.

P/2019 S3 (PANSTARRS)  
Epoch 2019 Apr. 27.0 TT = JDT 2458600.5  
T 2019 Aug. 26.06128 TT Veres  
q 1.8067103 (2000.0) P Q  
n 0.15632271 Peri. 212.93421 +0.99542958 -0.05889379  
a 3.4128824 Node 150.16695 +0.07734616 +0.95891773  
e 0.4706204 Incl. 8.69160 -0.05601363 +0.27750371  
P 6.30  
From 45 observations 2019 Aug. 27-Oct. 4, mean residual 0".6.

Ephemeris:

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1	m2
2019 09 04		02 18 22.9	+03 52 29	1.0146	1.8084	126.7	26.6	20.9	
...									
2019 09 19		02 27 58.6	+02 05 05	0.9387	1.8188	138.7	21.4	20.8	
...									
2019 09 27		02 29 50.3	+00 54 57	0.9109	1.8282	145.6	18.0	20.7	
...									
2019 10 03		02 29 46.5	+00 00 03	0.8970	1.8369	150.8	15.4	20.7	
2019 10 04		02 29 39.1	-00 09 04	0.8953	1.8385	151.7	15.0	20.7	
2019 10 05		02 29 30.0	-00 18 10	0.8938	1.8401	152.5	14.5	20.7	
...									
2019 10 11		02 28 00.3	-01 11 11	0.8887	1.8507	157.4	12.0	20.7	
...									
2019 10 19		02 24 46.0	-02 14 19	0.8929	1.8669	162.4	9.3	20.8	
...									
2019 11 03		02 17 00.2	-03 31 21	0.9367	1.9035	161.4	9.6	21.0	

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