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Probable nova and R-band photometry of another four novae in M31

ATel #5569; *E. Ovcharov (SU, Bulgaria), P. Enikova (IA BAS, Bulgaria), A. Kurtenkov (IA BAS, Bulgaria), G. Nikolov (IA BAS, Bulgaria), T. Trifonov (LSW, Heidelberg), V. Bozhilov, G. Ganchev, Ts. Tsvetkov, Ts. Genkova, A. Valcheva, P. Nedialkov (SU, Bulgaria)*
on **11 Nov 2013; 08:56 UT**

Credential Certification: *Evgeni Ovcharov (evgeni@phys.uni-sofia.bg)*

Subjects: Optical, Nova

Referred to by ATel #: [5640](#), [5744](#), [9554](#)

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We report the discovery of faint probable nova located at RA(2000) = 00h41m26.23s, Dec(2000) = +41d43'50", which is 880.4" west and 1661.4" north of the center of M31. The object is visible on the all images, obtained on November 7th, 8th and 9th with the 50/70cm Schmidt telescope at NAO Rozhen, Bulgaria. The available R-magnitudes are:

2013 11 07.780 UT, R = 20.3+/-0.2 (5x300sec co-added)
2013 11 08.805 UT, R = 20.5+/-0.2 (5x300sec co-added)
2013 11 09.815 UT, R = 20.3+/-0.2 (5x300sec co-added)

Furthermore, we report additional R-band photometry for the novae candidates - Nova M31 2013-10d = PNV J00442132+4055220 (ATel # [5475](#), ATel # [5543](#)), Nova M31 2013-10g = PNV J00432496+4121219 (ATel # [5502](#), ATel # [5522](#), ATel # [5543](#)), Nova M31 2013-10h = TCP J00430483+4116306 (ATel # [5528](#), ATel # [5554](#)) and Nova M31 2013-11a = iPTF13dya (ATel # [5539](#)). The observations are carried out in eight nights at three different observatories:

50/70 cm Schmidt telescope + CCD FLI 16803, NAO Rozhen
35 cm Newton telescope + CCD SBIG 11000M, SAO Plana (ATel # [5558](#))
70 cm Cassegrain telescope + CCD FLI 16803, ZAH-Landessernwarte, Heidelberg

2013-10d
2013 10 28.751 UT, R=17.87+/-0.02, (5x300s), Rozhen
2013 11 01.940 UT, R=18.25+/-0.03, (5x300s), Rozhen
2013 11 07.780 UT, R=18.54+/-0.04, (5x300s), Rozhen
2013 11 08.805 UT, R=18.78+/-0.04, (5x300s), Rozhen
2013 11 09.815 UT, R=18.77+/-0.05, (5x300s), Rozhen

2013-10-g
2013 10 28.751 UT, R=17.36+/-0.03, (5x300s), Rozhen
2013 10 29.882 UT, R=17.70+/-0.08, (30x60s), Plana
2013 10 30.928 UT, R=17.73+/-0.03, (7x300s), Heidelberg
2013 11 01.940 UT, R=17.47+/-0.04, (5x300s), Rozhen
2013 11 02.883 UT, R=17.37+/-0.07, (30x60s), Plana
2013 11 07.780 UT, R=17.77+/-0.05, (5x300s), Rozhen
2013 11 08.805 UT, R=17.72+/-0.04, (5x300s), Rozhen
2013 11 09.815 UT, R=17.93+/-0.06, (5x300s), Rozhen

Related

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- 10749** Detection of a 9.4 min periodicity in the XMM-Newton and Chandra X-ray light curves of V407 Lup (Nova Lup 2016)
- 10722** Nova Lup 2016 during the X-ray decay phase
- 10632** Swift observations of nova V407 Lup: detection of a UV period at 1.1 or 3.6 hours
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- 9594** Fermi-LAT Gamma-ray Observations of Nova Lupus 2016 (ASASSN-16kt)
- 9587** Spectroscopic observations of Nova Lup 2016
- 9554** Spectroscopy and photometry of MASTER OT J004126.22+414350.0 in the Andromeda direction
- 9550** Photometric Follow-Up of A Likely Galactic Nova ASASSN-16kt: Almost Naked Eye
- 9539** Erratum to ATel 9538: ASAS-SN Discovery of A Likely Galactic Nova ASASSN-16kt at V=9.1
- 9538** ASAS-SN Discovery of A Likely Galactic Nova ASASSN-16kt at V=9.1
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- 8550** jujia@ynao.ac.cn
- 8228** Supersoft X-ray detections of M31 Novae with XMM-Newton
- 8227** Recent X-ray transients in the M31 disk found with XMM-Newton
- 8033** Spectroscopy and photometry of the nova M31N 2015-08c and photometry of the recurrent nova M31N

2013-10h

2013 10 30.928 UT, R=18.50+/-0.07, (7x300s), Heidelberg
 2013 11 01.940 UT, R=16.27+/-0.02, (5x300s), Rozhen
 2013 11 02.883 UT, R=15.65+/-0.02, (30x60s), Plana
 2013 11 07.780 UT, R=15.98+/-0.01, (5x300s), Rozhen
 2013 11 08.805 UT, R=16.38+/-0.02, (5x300s), Rozhen
 2013 11 09.815 UT, R=16.83+/-0.03, (5x300s), Rozhen

2013-11a

2013 11 07.780 UT, R=17.03+/-0.02, (5x300s), Rozhen
 2013 11 08.805 UT, R=17.42+/-0.02, (5x300s), Rozhen
 2013 11 09.815 UT, R=17.51+/-0.02, (5x300s), Rozhen

	2008-12a
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5745	Spectroscopy and photometry of novae M31N 2013-12a and M31N 2013-12b
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5677	Confirmation of Swift J004249.9+411457 in the Optical
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5539	iPTF Discovery of a Nova in M31
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3068	Spectrum of optical counterpart to Swift/UVOT M31 transient
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3061	Swift UVOT UVW1 filter detection of a transient in the M 31 central area
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2727	Confirmation of a nova candidate in M 31 in optical and Swift UVOT observations
2713	Swift UV detection and optical confirmation of a nova candidate in M 31
2435	M31N 2010-01d: a new optical nova candidate close to the M 31 center detected in the ultraviolet (UV) and UV magnitudes of M31N 2010-01a and M31N 2010-01b
2274	Swift Ultraviolet Detections of five Novae in M31

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