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Independent Discovery of PNV J00424012+4117273 and Confirmation of PNV J01334673+3032181

ATel #12113; **K. Hornoch** (*Astronomical Institute, Ondrejov, Czech Republic*)

on 15 Oct 2018; 07:55 UT

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Subjects: Optical, Nova, Transient

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I report the independent discovery of a probable nova in M31 on a co-added 770-s R-band CCD frame taken on 2018 Oct. 14.740 UT with the 0.65-m telescope at Ondrejov.

The object was independently discovered by R. Belligoli et al. (designated as PNV J00424012+4117273 = [AT2018hfs](#)) and is located at R.A. = 0h42m40s.11, Decl. = +41o17'26".9 (equinox 2000.0), which is 47.5" west and 78.4" north of the center of M31 (see link to [discovery image](#)).

The following R-band magnitudes were obtained using the 0.65-m telescope at Ondrejov:

2018 Oct. 11.162 UT, [19.3; 14.740, 17.7 ± 0.2; 14.752, 17.9 ± 0.15.

On a request by F. Castellani, I obtained a co-added 1190-s R-band CCD frame of M33 on Oct. 14.766 UT with the same instrumentation. Despite poor seeing, the new M33 nova candidate discovered by R. Belligoli et al. and designated as PNV J01334673+3032181 = [AT2018hhy](#) is well visible at R-band magnitude 18.7 ± 0.2. The object is located at R.A. = 1h33m46s.70, Decl. = +30o32'18".4 (equinox 2000.0), which is 54.3" west and 437.4" south of the center of M33.

I thank H. Kucakova for getting images on Oct. 11.162 UT.

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