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## LIGHTCURVE PHOTOMETRY OF THE NEO 2007 PU11

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The Apollo asteroid 2007 PU11 was observed over 24 nights between 2007 October and December at the Observatorio Astronomico de Mallorca (620). From the collected data we determined a synodic rotation period of  $56.70921 \pm 0.00158$  h and lightcurve amplitude of  $0.98 \pm 0.03$  mag.

2007 PU11 is an Apollo type near-Earth object discovered by LINEAR (704) on 2007 August 13. We tracked the asteroid over 24 nights between 2007 October 5 and December 3 with one, or sometimes two identical, telescopes (0.30-m f/9 Schmidt-Cassegrain) located at the Observatorio Astronomico de Mallorca in Spain. Both were equipped with an SBIG STL-1001E CCD camera. Image acquisition and calibration were performed using

*Maxim DL*. All 3931 images were unfiltered and had exposures of 90 seconds. Image analysis was accomplished using differential aperture photometry with *MPO Canopus*. Period analysis was also done in *Canopus*, which implements the algorithm developed by Harris (Harris et al., 1989). From the data we determined a synodic period of  $56.70921 \pm 0.00158$  h and a lightcurve amplitude of  $0.98 \pm 0.03$  mag. The results are in good agreement with those reported by Carbognani et al. (2008).

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