

Central Bureau for Astronomical Telegrams

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Prepared using the Tamkin Foundation Computer Network

(31450) 1999 CU9

D. Pray, Sugarloaf Mountain Observatory, South Deerfield, MA, U.S.A.; P. Pravec, K. Hornoch, J. Vrastil and H. Kucakova, Ondrejov Observatory; V. Benishek, Belgrade Astronomical Observatory, Serbia; R. Roy, Observatoire de Blauvac, France; R. Behrend, Geneva Observatory; D. Romeuf, Chapdes-Beaufort, France; B. Warner, Center for Solar System Studies, Eaton, CO, U.S.A.; A. Scholz and G. Hodosan, Observatory of the University of St. Andrews, U.K.; J. Pollock, Appalachian State University; R. Montaigut and A. Leroy, OPERA Observatory, France; and D. Reichart and J. Haislip, University of North Carolina, Chapel Hill, report that photometric observations obtained during Sept. 5-Oct. 13 reveal that minor planet (31450) is a binary system with an orbital period of 53.47 +/- 0.07 hr. The primary shows a period of 3.4116 +/- 0.0003 hr, and has a lightcurve amplitude of 0.24 mag at solar phases 5-9 deg. Mutual secondary eclipse/occultation events that are 0.05 magnitude deep indicate a lower limit on the secondary-to-primary mean-diameter ratio of 0.22.

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(CBET 4157)

2015 October 26

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