

Central Bureau for Astronomical Telegrams
Mailing address: Hoffman Lab 209; Harvard University;
20 Oxford St.; Cambridge, MA 02138; U.S.A.
e-mail: cbatiau at eps.harvard.edu (alternate cbat at iau.org)
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D. Augustin, Anglet, France; and R. Behrend, Geneva Observatory; M. Deldem, Les Barres Observatory, Lamanon, France; D. Starkey, DeKalb Observatory, Auburn, IN, USA; J. M. Bosch, remotely observing from Santa Maria de Montmagastrell, Tarrega, Spain; F. Soldan, Amanecer Arrakis Observatory, Sevilla, Spain; J. Delgado, Nuevos Horizontes Observatory, Sevilla, Spain; R. G. Farfan, Uraniborg Observatory, Sevilla, Spain; and R. Montaignut, OPERA Observatory, Saint Palais, France, report that their photometric observations of minor planet (4288) revealed that it is a binary system currently making 2.6-hr-long mutual phenomena, the first being observed on 2019 Oct. 31.12 UT. The main body rotates with a period of 0.13250 +/- 0.00001 day and has an amplitude of 0.18 magnitude. Attenuations up to 0.15 mag were observed with a period of 1.2615 days, corresponding to the orbital period of a satellite making mutual phenomena. The lower limit on the secondary-to-primary mean-diameter ratio is around 0.3. The satellite seems to be synchronized, as its determined period of rotation is 1.2610 +/- 0.0005 days; its signature on the brightness of the system has an amplitude of 0.05 mag. Behrend notes that he and Augustin observed remotely using a 8.5-cm refractor at "E-eye", Fregenal de la Sierra, Spain, and a 14-cm refractor at "Deep Sky Chile", Pichasca, Chile.

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Daniel W. E. Green