

Central Bureau for Astronomical Telegrams
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(9474) CASSADRURY

M. Conjat, Observatoire de la Cote d'Azur, France; R. Montaignut, Club d'Astronomie de Lyon Ampere, France; D. Augustin, Anglet, France; R. Behrend, Geneva Observatory, Switzerland; A. Wuensche and M. Bretton, Observatoire des Baronnies Provencales, France; H. Boussier, Reilhanette, France; D. Starkey, Auburn, IN, U.S.A.; J. Ruiz, Observatorio de Cantabria, Spain; and F. Soldan, Sevilla, Spain, report that photometric observations taken with a 0.40-m telescope at Nice Observatory, a 0.14-m refractor at the "Deep Sky Chile" observatory in Chile, a 0.08-m refractor at the "e-EyE" observatory in Spain, a 0.82-m telescope at Observatoire des Baronnies Provencales in France, a 0.13-m telescope at "Micro Palomar observatory" in France, a 0.40-m at DeKalb Observatory in U.S.A., a 0.40-m telescope at Observatorio de Cantabria in Spain, and a 0.20-m telescope at Observatorio Amanecer de Arrakis in Spain during Oct.-Nov. 2019 reveal that minor planet (9474) Cassadrury is a binary system with an orbital period of 26.824 +/- 0.006 hr. The primary shows a period of 2.7952 +/- 0.0010 hr with light-curve amplitude of 0.11 mag at solar phases 12-7 degrees, suggesting a nearly spheroidal shape. Mutual eclipse/occultation events that are 0.14 to 0.30 magnitude deep indicate a lower limit on the secondary-to-primary mean-diameter ratio of 0.37. The secondary's rotation appears synchronous with the orbital motion.

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