Fifteenth exoplanet, HAT-P-5b, measured at THO

Exoplanet HAT-P-5b was discovered October 2007. It circulates the star GSC 2634-1087 that is about 11.9 magnitude bright. It is located in the Lyra about 1100 light years from the Earth. The star is only 0.16 times of the Sun in mass, but it is larger in diameter than the Sun. It has a spectrum class of G that is same that the Sun has. The exoplanet itself is so called hot-jupiter that has a diameter of 25% more that Jupiter. It has a revolution time of 2.79 days around the mother star. Veli-Pekka Hentunen and Markku Nissinen from the Taurus Hill Observatory's research team managed to photograph and measure 120 minutes of the total of the 175 minutes transit of the HAT-P-5b 3./4.5.2008. The weather was clear and warm, about +10 celcius degrees. The measurements were taken with clear filter and 50 sec. exposure times. The comparison stars that were used were 2634-955 (C1), GSC 2634-675 (C2), GSC 2634-1090 (C3), GSC 2634-927 (C4) and GSC 2634-1059 (C5). The change in the brightness was about 20 mmag. Observers: Veli-Pekka Hentunen ja Markku Nissinen

About the Author

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