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## V1327 aquilae: A new RR lyrae variable with an extremely high radial velocity

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## **Abstract**

We have carried out photometry and spectroscopy of the star V1327 Aql (R = 16 m ) as part of our program of observations of poorly studied cataclysmic variables using the 1.5-m optical Russian-Turkish telescope (RTT-150, Turkey) and the 6-m telescope of the Special Astrophysical Observatory of the Russian Academy of Sciences. After analyzing our photometry, we have reclassified the variable as an RR Lyrae star. Our BV R photometry during 10 nights reveals brightness variations with the period 12 h49 m, with the B, V, and R amplitudes being 1.36 m , 1.13 m , and 1.11 m , respectively. We derived the first estimates of the star's atmospheric parameters from our moderate-resolution spectra: T eff = 6280 K, log g = 3.3, [M/H] = -1.05. The extremely high radial velocity of the star's motion (V R = -470 km/s) and the star's large distances to the Galactic center (13.1 kpc) and disk (4.2 kpc) testify to a probable extragalactic origin of this object. © 2008 Pleiades Publishing, Ltd.

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