

## Accepted Manuscript

Cyclic variations with twice the accretion disk precession period in the old nova V603 Aquilae

Albert Bruch, Lewis M. Cook

PII: S1384-1076(17)30401-3  
DOI: [10.1016/j.newast.2018.02.002](https://doi.org/10.1016/j.newast.2018.02.002)  
Reference: NEASPA 1178



To appear in: *New Astronomy*

Received date: 11 December 2017  
Revised date: 11 January 2018  
Accepted date: 7 February 2018

Please cite this article as: Albert Bruch, Lewis M. Cook, Cyclic variations with twice the accretion disk precession period in the old nova V603 Aquilae, *New Astronomy* (2018), doi: [10.1016/j.newast.2018.02.002](https://doi.org/10.1016/j.newast.2018.02.002)

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**Highlights**

- An unprecedentedly homogeneous and dense data set of the old nova V603 Aql is analyzed.
- The well-known 3.5 hour superhump modulation is recovered.
- A very clear hitherto unobserved variation with a period of 5.85 days is detected.
- The 5.85 day period is exactly equal to twice the precession period of an eccentric disk.

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