

Short talk

**GAUSSIAN PROCESSES FOR LONG-TERM OBSERVED
CONTINUUM AND BROAD LINE LIGHT CURVES OF E1821+643**

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A binary black hole candidate QSO E1821+643 has been monitored in the period from 1990 to 2014. Our findings suggest a possible periodicity in the continuum and broad emission line light curves (Shapovalova et al. 2016), which may be caused by orbital motion. To explore the periodicity indications we applied non-parametric models, i.e. the Gaussian processes, to the continuum and broad emission line light curves of QSO E1821+643.

References

Shapovalova, A. I., Popović, L. Č., Chavushyan, V. H., Burenkov, A. N., Ilić, D., Kollatschny, W., Kovačević, A. et al.: 2016, *ApJS*, accepted.