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[304] What can variability of quasar microlensing light curve can tell us about its structure ?

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By analysing microlensing light-curves of the multiple images of a strongly lensed quasar, one can yield powerful constraints on its structure. These light-curves are under the influence of three main variable components: the continuum flux, microlensing by stars in the lens galaxy and reverberation of the continuum by the Broad Line Region (BLR).

In Paic et al.(2022) a new method was applied to the COSMOGRAIL light curves of QJ0158-4325. We showed that the short time scale features observed are due to reverberation by the BLR. This allows us to measure, for the first time, the size of the BLR using single-band photometric monitoring in good agreement with previous estimates.

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