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Photometric Reverberation Mapping

Reverberation mapping (RM) is the main tool by which spatially unresolved components of accreting black holes may be probed. To date, the size of the broad-line region in ~100 quasars has been successfully measured using RM. Here we outline the concept of photometric RM, implement the multivariate correlation-function formalism and present new results for a sample of around 40 quasars. We argue that this approach can efficiently compete with the traditional (spectroscopic) approach to RM, and may be easily implemented at a tiny fraction of the cost.

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