

Continuum and Emission Line Variability Induced by Microlensing

C. Abajas⁽¹⁾, E. Mediavilla⁽¹⁾, J. A. Muñoz⁽²⁾, R. Gil-Merino⁽³⁾.
abajas@iac.es, emq@iac.es, jmunoz@uv.es, gilmerinor@unican.es

¹ Instituto de Astrofísica de Canarias, Vía Láctea s/n, La Laguna 38200, Tenerife, Spain.

² Departamento de Astronomía y Astrofísica, Universidad de Valencia, Dr. Moliner 50, 46120, Burjasot, Valencia, Spain.

³ Departamento de Física Moderna, Universidad de Cantabria, Avda. de Los Castros s/n, 39005, Santander, Spain.

Abstract:

The effects of microlensing on the light curves of the continuum and broad emission lines (BEL) of active galactic nuclei are compared. Different kinematic and geometrical models for the broad line and the continuum regions are convolved with magnification patterns computed for several systems. We study the correlation between the BEL and continuum amplification according to these models.