
WeCAPP - Wendelstein Calar Alto Pixellensing Project



Jürgen Fliri

USM - Universitäts-Sternwarte-München

pixel lensing group:

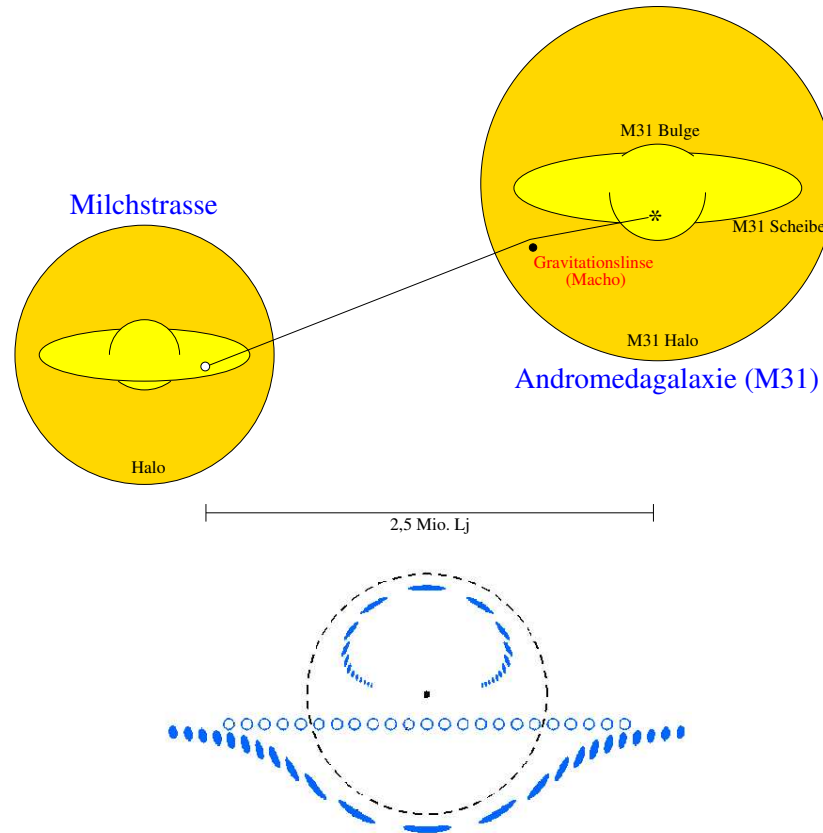
Arno Riffeser, Jürgen Fliri

Ralf Bender, Stella Seitz

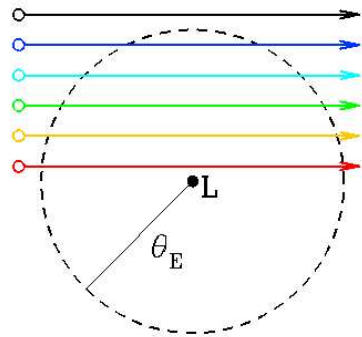
Claus A. Gössl, Ulrich Hopp

Jan Snigula

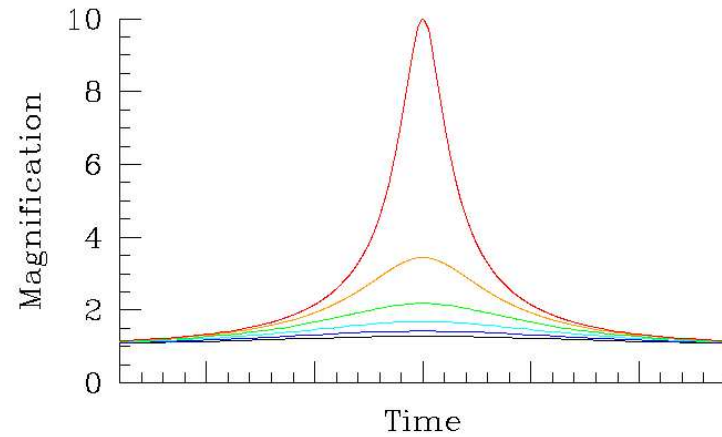
MACHOs and microlensing



background source (blue) passing behind a gravitational microlens
(black)



different approach of source
star and lens

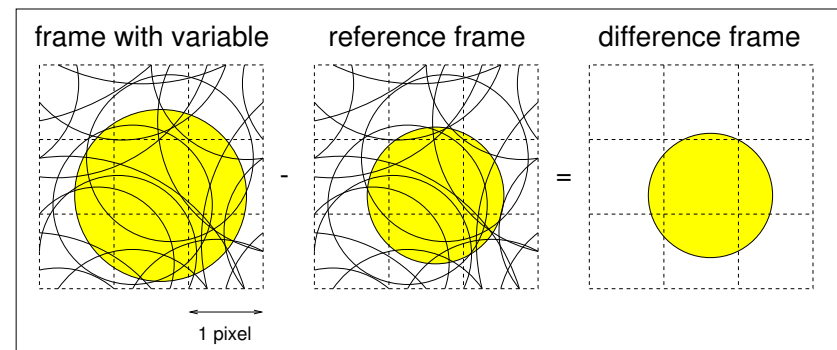


brightness as a function of
time

Pixelensing

- register **two** CCD **images** at different times
- **preprocess** images
- **subtract** the two frames
- **isolated** positive or negative **sources**

even in highly crowded fields:



to distinguish variable stars from **microlenses** \Rightarrow measure the **light curves**:

- light curve for microlensing
- symmetric
- event:
- achromatic
 - only one maximum

Observations

