

# BlaVar: a numerical study of long-term blazar variability

## Motivation

Programs which monitor on a daily base *blazars*;  
Fermi - LAT ( $\gamma$ -rays)  
SMARTS (optical/ IR)

## What was our goal?

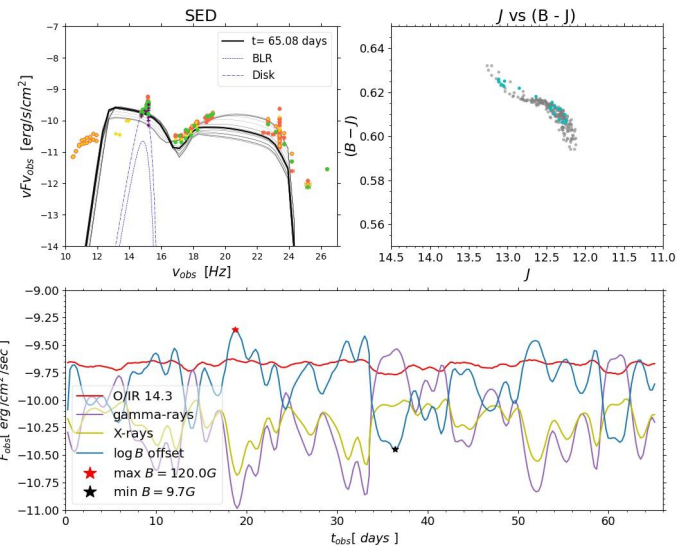
Test if a single a time-dependent parameter of the *one-zone leptonic model* account for the observed timing properties of blazars at all wavelengths. We also try to simulate the variability with two time-dependent parameters.

## What is our method?

Synthetic  $\gamma$ -ray light curves motivate the parameter time curve which is fed to our radiative transfer code.

## What we find?

A single parameter does not reproduce all the timing properties of a blazar. However, results are useful for more complex modeling.



**If you are interested, please watch our video (Animations in video) !**