

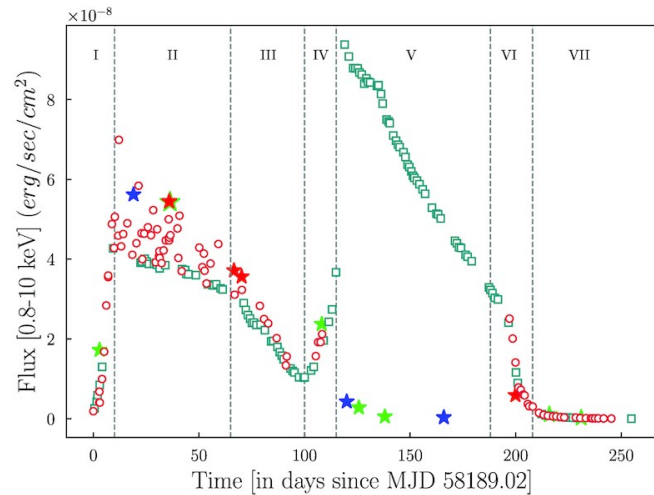
Annual report 2023

Piotr Życki

Bei You, ..., Bożena Czerny, ..., Marek Sikora, ..., PZ; 2023, Science, 381, pp. 961-964

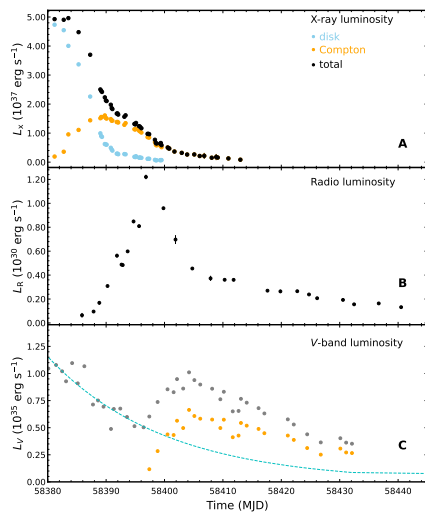
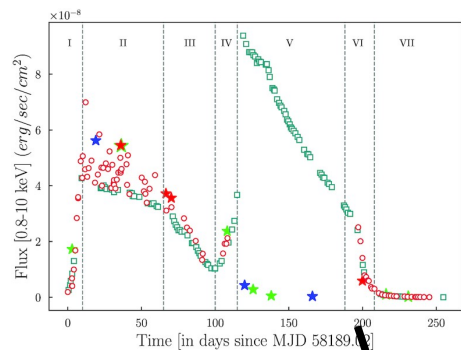
„Observations of a black hole X-ray binary indicate formation of a magnetically arrested disk”

X-ray binary MAXI J1820+070, outburst in 2018

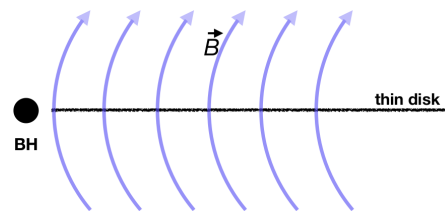


Swift/XRT & NICER data

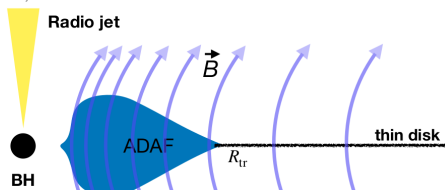
Prabhakar et al. 2022



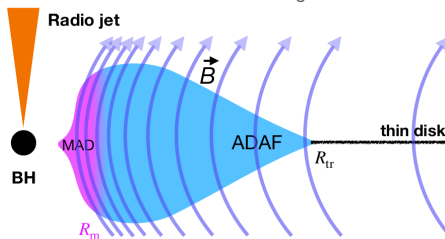
A On set of the flare,
 at $t_0 \simeq \text{MJD } 58380$



B Peak of hard X-ray emission,
 at $t_1 \simeq \text{MJD } 58389$



C Peak of radio emission when a MAD is formed in the inner region of the ADAF
 at $t_2 \simeq \text{MJD } 58397$



Astronomy Working Group – an ESA advisory body

Important tasks in 2023:

- Recommendation for NewAthena
- Recommendation for adoption of LISA