Astrophysical Polarimetry in the Time-Domain Era



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Time-domain polarimetry with RoboPol

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The Robotic Polarimeter (RoboPol) is a unique optical polarimeter that operates for almost ten years at Skinkas observatory, Crete, Greece. It has no rotating parts and can measure the linear Stokes parameters with a single exposure.

Built primarily to monitor blazars, it has studied their polarization overtime, and has offered valuable insights on the connection of polarization degree and angle variability to gamma-ray flares.

RoboPol instrument also has the capability to respond to targets of opportunity. It has been used to follow-up with optopolarimetric observations the optical afterglow of gamma-ray bursts (GRBs), including the recent, and exceptionally bright, GRB210619B.

I am going to present a brief overview of the RoboPol contribution to time-domain optical polarimetry, highlighting important results and discussing future plans.

Primary author: MANDARAKAS, Nikolaos

Presenter: MANDARAKAS, Nikolaos

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