

Poster

Splinter E-Science

THE BOCHUM GALACTIC DISK SURVEY

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The Bochum Galactic Disk Survey (GDS) is an on-going project dedicated to monitor the variability of the intermediately bright stellar population in a 6° wide stripe along the Galactic plane.

Started in 2010 it currently comprises light curves for $\sim 2 \times 10^7$ stars in Sloan r and i as well as average brightnesses in $UBVz$. Of those we currently find 110.456 stars to be variable in brightness.

The project aims at detecting any kind of stellar variability and providing high-quality light curves for their further analysis.

In particular, we focus on the variability during the star formation process as well as the stellar multiplicity as a function of mass as witnessed by eclipsing binaries, and the determination of Galactic Cepheid distances.