

Orientation of magnetic field of star forming clouds with respect to their galactic longitude

Gulafsha Begom Choudhury^{1,*}

1 Physics Department, Assam University, Silchar

* Presenting author (gulafsha.97@gmail.com)

Polarimetric study of star-forming clouds makes it possible to map the magnetic field geometry onto the plane of the sky as well as to scale the magnetic field structure. In this work, we have observed a correlation between the dominance of the interstellar magnetic field over the peripheral magnetic field of some star-forming globules (CB clouds) with their galactic longitude. We have taken seventeen nearby CB clouds at very low latitude, which include four clouds observed by our group and the rest are collected from the literature. Observations have been carried out using the ARIES imaging polarimeter mounted on the 104 cm optical telescope situated at Aryabhata Research Institute of Observational Sciences, Nainital, India. The results obtained from this study will be presented in the talk.