

Study of Interstellar Dust Grains in Milky Way and Nearby Galaxies.

Rupjyoti Gogoi^{1,*}

* Presenting author (rupjyotigogoi@gmail.com)

Interstellar dust grains play a vital role in determining the astrophysics of the Interstellar Medium. Multiwavelength data from different observational missions like Spitzer, AKARI, FUSE, GALEX etc. provide an excellent way to understand the abundance and characteristics of dust at different environments. In this ongoing work, we are trying to understand the origin, distribution and properties of dust in the Milky Way (MW) and nearby galaxies such as the Large Magellanic Cloud (LMC) and the Small Magellanic Cloud (SMC). We target to propose a uniform dust model to explain properties of dust in the Milky Way, LMC as well as SMC. The model will be helpful for a better understanding of dust in the universe.