

Interstellar Dust and Linear Polarization of Starlights

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This paper, presents the calculation, study and analysis of the linear polarization of starlights caused by interstellar dust grains. Hollow bacteria cylindrical shape model produced by Fred Hoyle and Serkowski law fit of linear polarization were applied on the data of six selected individual stars in the Milky Way in the wavelength range λ^{-1}= 1.35 - 7.14μ m^{-1} and 0.32 - 7.69μm^{-1}.

The hollow needle shape cylindrical bacteria can be fit with reasonable agreement to the normalized linear polarization data in infrared to visible region of the spectrum.

Serkowski law fit is excellent representation of linear polarization of the starlights of all the stars.

Keywords: Interstellar dust grains, linear polarization, Serkowski, Microbial model

Biography

Mohammed Azeez Saeed has completed his B.Sc study in Physics from University of Sulaimani,Iraq in 1977, MSc. Study in Meteorology/Climatology from Birmingham University, UK in 1980 and PhD. Study in Astronomy from University of Baghdad, Iraq in 2001. He is the director of grants and academic projects and Erasmus+ Institutional coordinator at Salahaddin University-Erbil.He has published 8 papers and supervised 6 master and PhD students

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