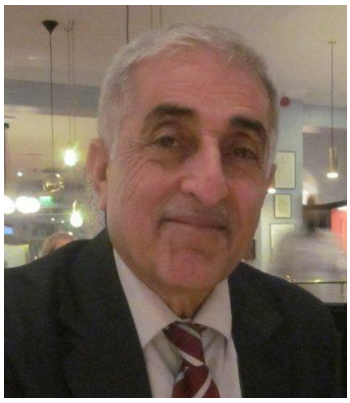


Analysis of the Diffuse Interstellar Bands

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In this paper, the results obtained by fitting linear and power law models to the diffuse interstellar bands data collected from literature are demonstrated. Analysis of the extensive observations of the equivalent width (EW) of the major diffuse interstellar bands (DIB) at 5780Å and 5797 Å as well as observations of the violet lines CH and CH^+ molecules , in the lines of sight toward 68 stars representing various degree of interstellar reddening are studied. The equivalent widths of D1(5895 Å),D2(5889 Å) lines, column densities N_{HI},N_{HII} and N5780 of some 93 stars are also studied and presented.

Biography

Mohammed Azeez Saeed has completed his PhD in Astronomy from Department of Astronomy, College of Science, University of baghdad-Iraq. He is the Institutional Erasmus+ Coordinator at Salahaddin University-Erbil,Iraq. He has published 8 papers in local scientific journals and has been supervising 5 M.Sc. and Ph.D. students in the field of Atmospheric Physics and Astronomy. Currently he is teaching both undergraduate and postgraduate students in Physics .

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