



Diffuse Interstellar Bands

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Diffuse Interstellar Bands:

The Diffuse Interstellar Bands A.G.G.M. Tielens, T.P. Snow, 2012-12-06 The mystery of the diffuse interstellar bands has been variously a curiosity a common and a nuisance for astronomers in the seven decades since the features were first noticed but recently they have become a forefront issue in astrophysics Ever since Paul Merrill in a series of papers starting in 1934 pointed out the interstellar and unidentified nature of the bands a Who's Who of twentieth century astronomers have tried their hands at solving the problem of identifying the carriers Henry Norris Russell Pol Swings Otto Struve Paul Ledoux W W Morgan Walter Adams Jesse Greenstein Lawrence Aller and Gerhard Herzberg all briefly entered the stage only to move on quickly to other problems where the chances for progress appeared more realistic In more recent times a number of equally prominent scientists have pursued the bands but generally only as a sideline to their real astronomical research But in the past decade and particularly in the past three years the view of the search for the diffuse band absorbers as an interesting but perhaps quixotic quest has changed Today there are several astronomers as well as laboratory chemists who are devoting substantial research time and resources to the problem and as perhaps the most reliable indicator of the newly elevated status of research in this field some research grants have now been awarded for the study of the bands

The Diffuse Interstellar Bands (IAU S297) Jan Cami, Nick L. J. Cox, 2014-03-27 This volume describes the current state of the art in research aimed at unraveling the carriers of the enigmatic diffuse interstellar bands DIBs The DIBs are a set of hundreds of absorption bands that are seen from the near ultraviolet to near infrared wavelengths Their interstellar origin is well established but the precise chemical identity of the DIB carriers remains to date one of the greatest unsolved mysteries in astronomical spectroscopy These proceedings of IAU Symposium 297 include more than 70 contributions that cover a wide range of topics in observational astronomy and astrophysics laboratory astrophysics and spectroscopy astrochemistry and theoretical experimental and computational chemistry This interdisciplinary overview contains all the required background material to make the volume an ideal starting point for researchers and graduate students to learn about the various aspects of DIBs and related topics

Diffuse Interstellar Bands (DIBs) Meriem El Yajouri, 2018 Diffuse interstellar bands DIBs represent a century old mystery none of the hundreds of bands could be identified with certainty with a specific carrier at the very likely exception of the buckminsterfullerene cation C₆₀ Identifying and quantifying the amount of the large interstellar carbonaceous molecules that are very likely responsible for the DIBs is mandatory DIB carriers likely represent the largest amount of organic matter in the Universe and are an important piece of the chain of processes that govern the interstellar stellar cycle Up to recently most of the DIB studies have had as a unique goal the identification of the carriers and to do so have been focusing on a limited number of hot distant and reddened stars using increasingly powerful instruments This thesis marks a turning point in the methods and goals associated with the DIBs an evolution allowed and motivated by the increasing number of stellar surveys with high multiplex instruments As a matter

of fact it is possible today to gather massive amounts of data both from the point of view of the number of target stars and from the point of view of the number of DIBs simultaneously observed This has opened the way to new types of studies more ambitious goals and importantly new potential comparisons with laboratory data This thesis presents a large number of DIB extractions and four of these novel analyses Methods of extraction and search for new DIBs Statistical studies of the link between DIB strengths and the physical properties of their hosting clouds Tomographic studies of the carriers on large and small spatial scales Line profile extractions based on carefully selected sightlines studies of their substructures and spatial variability and subsequent constraints on their potential molecular carriers

Diffuse Interstellar Bands Robert E. Hibbins,1996 *Putting the Diffuse Interstellar Bands on the Map - Literally!*,2014 **The Diffuse Interstellar Bands** G.H. Herbig,1967 *Probing the Diffuse Interstellar Medium with Diffuse Interstellar Bands* Amanda Bailey,2014

Diffuse Interstellar Bands and the Structure of the ISM Martin Cordiner,2005 **The Search for Diffuse Interstellar Bands in Quasar Absorption Line Systems** Brian A. York,2008 [The Diffuse Interstellar Bands](#) Theodore Peck Snow,1973 **On the Diffuse Interstellar Bands and the Local Interstellar Medium** Charlotte C. M.

Marshall,2017 [The Diffuse Interstellar Bands](#) A. G. G. M. Tielens,1994 *Diffuse Interstellar Bands III* G. H. Herbig,1967 [Scientific and Technical Aerospace Reports](#) ,1995 **Diffuse Interstellar Absorption and Emission**

Bands Janet R. Miles,1994 **Dust and Diffuse Interstellar Bands in the Z[_{sub} A]** ,2004 The authors present new HST STIS NUV MAMA and STIS CCD observations of the BL Lac object AO 0235 164 and the intervening damped Ly alpha DLA line at z sub alpha 0 524 The line profile gives N HI 5 1 x 10 sup 21 cm sup 2 and combined with the H I 21 cm absorption data leads to a spin temperature of Ts 220 K 60 K Those spectra also show a strong broad feature at the expected position of the 2175 angstrom graphitic dust feature at z sup alpha 0 524 Assuming a Galactic type dust extinction curve at z sub alpha 0 524 gives a dust to gas ratio of 0 19 Galactic but the fit assuming the underlying un reddened spectrum is a single power law is poor in the far UV A dust to gas ratio of 0 19 Galactic is similar to the LMC but the AO 0235 164 spectrum does not fit the LMC extinction curve or the SMC extinction curve which has practically no 2175 angstrom feature A possible interpretation includes dust similar to Galactic but with less of the small particles that produce the far UV extinction The metallicity of the z sub alpha 0 524 absorber estimated from the observed N HI and excess X ray absorption beyond Galactic derived from contemporaneous and archival ASCA and ROSAT

A Laboratory Search for the Carrier Molecules of the Diffuse Interstellar Bands Mark H. Stockett,2011 *Diffuse Interstellar Bands as a Tool for Exploring Galactic Interstellar Medium* Rok Vogrinčič (astronom.),2023 **Interstellar Extinction Anomalies and the Diffuse Interstellar Bands**

Canada. Department of Energy, Mines and Resources. Dominion Observatories Branch,Gordon Arthur Hunter Walker,J. B. Hutchings,P. F. Younger, **Annual Review of Astronomy and Astrophysics** Leo Goldberg,Geoffrey R. Burbidge,1995-09 Provides abstracts and full text for articles on astronomy and astrophysics

This book delves into Diffuse Interstellar Bands. Diffuse Interstellar Bands is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Diffuse Interstellar Bands, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Diffuse Interstellar Bands
 - Chapter 2: Essential Elements of Diffuse Interstellar Bands
 - Chapter 3: Diffuse Interstellar Bands in Everyday Life
 - Chapter 4: Diffuse Interstellar Bands in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Diffuse Interstellar Bands. This chapter will explore what Diffuse Interstellar Bands is, why Diffuse Interstellar Bands is vital, and how to effectively learn about Diffuse Interstellar Bands.
3. In chapter 2, the author will delve into the foundational concepts of Diffuse Interstellar Bands. This chapter will elucidate the essential principles that need to be understood to grasp Diffuse Interstellar Bands in its entirety.
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6. In chapter 5, the author will draw a conclusion about Diffuse Interstellar Bands. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Diffuse Interstellar Bands.

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