

LIST OF CONTRIBUTED PAPERS

COMPOSITION OF PLANETARY ATMOSPHERES

- Beer
de Bergh & Maillard
Haas, Erickson, McKibbin
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Rouan, Gautier, D., Baluteau,
Marten, Chedin, Scott, N.,
Husson, Conrath, Hanel,
Kunde, & Maguire
- The Infrared Spectrum of Venus in the
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Near-Infrared Laboratory
High-Resolution Spectroscopy for
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Far-Infrared Spectrophotometry of
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STRUCTURE OF PLANETARY ATMOSPHERES

- Apt
*Diner
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Mumma, Buhl, Chin, Deming,
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Terrile, Capps, Becklin,
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Tokunaga, Knacke, & Ridgway
- Results from Daily Infrared Imaging
of Venus: 1973-1979
Morphology and Structure of Venus'
North Polar Region by Infrared
Imaging from the Pioneer Orbiter
Remote Sensing of the Middle
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Analysis of the Infrared Observations
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Direct Observation of the Failure of
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Correlation of Jovian Cloud Colors
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Spectroscopy of Jupiter and Saturn

THERMAL PROPERTIES AND REMOTE SENSING OF PLANETS AND SATELLITES

- Hildebrand, Keene, & Whitcomb
- Submillimeter Brightness Temperatures
of the Giant Planets

* Poster Presentations

- Martin, T.Z. General Thermal and Albedo Behavior of Mars
- Nicholson & Jones, T.J. Spectrophotometry of Uranus and Its Rings
- INTERPLANETARY DUST
- Fraundorf, Freeman, Patel, Shirck, & Walker Laboratory Measurements of Visible and Infrared Optical Absorption in Interplanetary Dust Particles
- Hanner The 10-Micron Emission from Cometary Dust
- Potter & Morgan Mid-Infrared Measurements of Lunar Mineralogy
- THE SUN
- *Lindsey, Hildebrand, Keene, & Whitcomb Submillimeter Observations of Sunspots
- CONTINUUM EMISSION FROM MOLECULAR CLOUDS AND H II REGIONS
- Campbell & Hoffman Large-Scale Far-Infrared Emission from IC 1318 b, c
- *Cudlip, Emerson, Furniss, Jennings, King, & Robert Multiband Far-Infrared Observations of the NGC 6334 Complex
- *Erickson, Haas, Caroff, Simpson Goorvitch, & Tokunaga Far-Infrared Spectra of Compact Galactic Nebulae
- *Harris, A., Lemke, Kleiner, & Frey Near-Infrared Maps of H II Regions M17 and W51
- *Jones, T.J. & Hyland New Infrared Studies of the Chamaeleon Dark Cloud Region
- Jaffe, P., Stier, & Fazio Newly Formed OB-Stars in the Giant Molecular Cloud Complex Southwest of M17
- *Keene, Harper, Hildebrand, & Whitcomb Far-Infrared Observations of Globules
- Lada & Wilking Heat Sources for Bright-Rimmed Molecular Clouds: Infrared Observations of B35
- *McBreen, Fazio, & Jaffe, D. A High-Resolution Far-Infrared Map of M16
- Natta, Palla, Preite-Martinez & Panagia Dust Temperature and IR Emission in High Extinction Molecular Clouds
- Nordh & Fridlund Far-Infrared Emission from Low Mass Star-Forming Regions
- Sargent & van Duinen New Far-Infrared Observations of Molecular Cloud Cores
- Schwartz The MM Wavelength Spectrum of Galactic Far IR Sources

MICROWAVE AND MM-WAVE STUDIES OF MOLECULAR CLOUDS

- *Beckman, Watt, White,
Phillips, J.P., & Frost
de Graauw, Lidholm
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*Falgarone
*Forster, Goss, de Jong, Norman
Habing, Downes, Wilson, T.L.,
& Dickel
*Harris, S.
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*White, Phillips, J.P., Watt,
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*Zealey & Ninkov
- Abundances of C¹⁸O and HDO in
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CO(J=2-1) Observations of Southern
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H₂CO Observations of Compact H II
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New Detections of Molecular
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MASERS, COMPACT IR SOURCES AND YOUNG STARS

- *Felli, Johnston, & Churchwell
Guibert, Epchtein, Nguyen-
Quang-Rieu, Turon,
& Wamsteker
Howell, McCarthy, & Low
Hyland & McGregor
Moorwood & Salinari
Persi, Ferrari-Toniolo,
& Spada
Righini-Cohen, Simon, M.
& Felli
Sibille & Lena
*Tanzi, Tarengi, & Panagia
Wright, E.L., Harper,
Loewenstein, & Moseley
- Compact Radio Component in the Core
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Infrared Sources Associated with
Southern Galactic OH Masers
IR Speckle Interferometry of
Proto-Stellar Objects
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Infrared Observations of Stellar
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Far-Infrared Observations of H₂O
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IONIC AND MOLECULAR EMISSION LINES

- Aitken & Roche 10-Micron Spatial and Spectral Structure in G333.6-0.2
- Beck, Serabyn, Lacy, Geballe, & Smith, H.A. Observations of the $v=0-0$ S(2) Line of Molecular Hydrogen in the Orion Molecular Cloud
- Baluteau & Moorwood The Effect of Density Structure on Abundances Derived from Far-Infrared Line Observations of H II Regions
- Cosmovici & Strafella Near-Infrared High-Resolution Spectrophotometry of Interstellar [C I] and C₂
- Dinerstein 10-Micron Infrared Line Emission and the Derivation of Chemical Abundances
- *Furniss, Jennings, King, Emery, Fitton, & Naylor Observations of Far-Infrared Fine Structure Lines in M17 and M42
- *Hefele & Hoelzle 8-14 μm Spectrophotometry of S 106
- *Joseph & Morris, S.A. He⁺/H⁺ Recombination Line Ratios and Selective Absorption in the Lyman Continuum by Dust in H II Regions
- Lester Infrared Forbidden Lines in Compact H II Regions
- Melnick, Russell, Gull, G.E., & Harwit Far-Infrared Emission Line and Continuum Observations of NGC 7027
- Russell, Melnick, Gull, G.E., & Harwit Detection of the 157 Micron (1910 GHz) [C II] Emission from the Interstellar Gas Complexes NGC 2024 and M42
- Young & Knacke Observations of the 4.7 μm Molecular Hydrogen Rotational Transition in the Orion Nebula

THE ORION CLOUDS

- Baud, Bieging, Plambeck, Welch, & Wright, M.C.H. Aperture Synthesis Observations of the 3-mm SO Emission from OMC 1
- *de Muizon, Rouan, & Baluteau About a Shock Front in the Orion Nebula; Measurement of the CO J=30-29, 87.2 μm Emission Line
- Genzel, Becklin, Wynn-Williams, & Downes High Velocity Outflow in Orion
- *Hjalmarson, Ellder, Friberg, Höglund, Irvine, Johansson, Olofsson, Rydbeck, G., Rydbeck, O.E.H., Guelin, Nguyen-Q-Rieu, & Schloerb Onsala Molecular Line Studies of the BN/KL Region
- Keene, Hildebrand, & Whitcomb High-Resolution Submillimeter Map of OMC 1

- Lee, Gatley, Stewart, Lonsdale,
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Lonsdale, Becklin, Lee, Gatley,
& Stewart
Storey, Watson, D.M., Townes,
Haller, & Hansen
Traub & Brasunas
*Werner, Becklin, Gatley,
Neugebauer, & Sellgren
*Wilson, T.L., Walmsley,
Winnewisser, Kislyakov,
& Bastien
- Infrared Reflection Nebulosity in
OMC 2
Near Infrared Observations of the
Stellar Cluster in OMC 1
Molecular Line Observations in the
Far Infrared
Observations of CO Lines in Orion
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DUST AND POLARIMETRY

- Allamandola, Greenberg,
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*Greenberg, van de Bult,
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*Heckert & Zeilik
*Johnson & Kemp
Jones, B., Merrill, Stein,
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*Leger, Klein, de Cheveigne
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*Scarrott, Perkins, Bingham,
& Murdin
*Tielens, Hagen, & Greenberg
*Whittet
*Wickramasinghe, D.T.,
& Allen, D.A.
*Williams, P.M.
- Astrophysical and Laboratory Spectra
of Interstellar Grain Mantles
The Nature of Organic Molecules in
Interstellar Grain Mantles
Infrared Polarimetry of Compact H II
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Infrared Polarimetry with
Photoelastic Modulators
The Dependence of the 8 to 13 Micron
Spectrum of NGC 7027 on Position
in the Nebula
Laboratory Study of Amorphous
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Origin of the 3 μm Absorption
Optical Polarization Maps of Bipolar
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Laboratory Study of the 3-micron
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Infrared Spectroscopy of Dust-Embedded
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The 3.4- μm Absorption Band and
Organic Material on Interstellar
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Identification of a Strong Emission
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EVOLVED OBJECTS

- *Bruston & Gispert
- Analysis of Millimetric Photometric
Observation Data of the Crab
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- Longmore, Sharples, & Hawarden
 *Puschell & Heeschen
 Rickard, Harvey, & Thronson
 *Russell, Melnick, & Harwit
 Telesco & Owensby
- Infrared and Optical Photometry of
 Dust-Lane and Radio Galaxies
 Preliminary Results of a Search at
 10 μm for Nonstellar Emission from
 Elliptical Galaxies with Compact
 Radio Sources
 Far-Infrared Studies of Galaxies
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 Narrow-Band Photometry of M 82 at
 Wavelengths Ranging out to 180
 Microns
 A Large 10- μm Source near the Center
 of M51 (NGC 5194)

SEYFERT GALAXIES AND QSOs

- Allen, D.A., Carswell, Ferland,
 Baldwin, J.A., Barton,
 & Gillingham
 Biegging, Blitz, Lada, & Stark
 Condon, O'Dell, S.L.,
 Puschell, & Stein
 *Glass
 Hyland & Allen, D.A.
 Impey, Brand, Wolstencroft,
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 Rieke & Lebofsky, M.J.
 Scoville, Hall, D.N.B.,
 Kleinmann, S.G., & Ridgway
 Sherwood, Schultz, & Kreysa
 Ward, Allen, D.A., Smith, M.J.,
 Wilson, A.S., & Wright, A.E.
 Wilson, A.S., Ulvestad,
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 *Wolstencroft & Gilmore
- The Hydrogen Emission Lines in
 Quasars
 Molecular and Infrared Radiation
 from Seyfert Galaxies
 The Spectral-Flux Distribution of
 Radio "Quiet" and Radio "Loud"
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 JHK Photometry of Quasars
 The Infrared Continuum of Quasars
 JHK Polarimetry and Photometry of
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 Near-Infrared Spectrophotometry of
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 The Nucleus of NGC 4151
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 The Near-Infrared Continua of X-ray
 and Other Active Galaxies
 Radio Jets in Seyfert Galaxies and
 the Origin of the Radio-Infrared
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 Rapid Variations of OJ287 at
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THEORY

- *Bode & Evans, A.
 *Bode & Evans, A.
 *Di Fazio & Palla
- Periodic Infrared Emission by Cosmic
 Dust Grains
 Thermal Infrared Emission from Type II
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 Isothermal Phases in Protostar
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- Falk & Hessman
Infrared Emission from Dust in Gas
Lost from Galaxies in Cluster Cores
- *Guibert, Epchtein, Nguyen-Quang-
Rieu, Turon, & Wamsteker
Infrared Pumping of Circumstellar
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- Harris, S., & Clegg
A Luminosity Function for Molecular
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- *Hollenbach & McKee
Dissociation Speeds for Interstellar
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- *Lebertre & Papoular
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- *Kulkarni & Ashok
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- *Rowan-Robinson
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- TECHNIQUES
- *Bensammar & de Batz
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- *Craine
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- *Gautier, T.N., Low, Poteet,
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A Small Helium-Cooled Telescope for
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- *Giles
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- *Maillard
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- *Neugebauer
Latest Estimates of IRAS Sensitivities
- *Rabbia
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Heterodyne Interferometer
- *Werner & Murphy
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- *Wing, Rinsland, Hayes, Joyce,
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A Coordinated Program of Relative
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