

NASA IUE PREPRINTS

(Received since Newsletter No. 25)

- "The Many Faces of Capella: A Search for Rotational Modulations and a Study of Systematic Velocities of Emission Lines in the Ultraviolet", T.R. Ayres
- "Precise Measurements of Radial Velocities of Emission Lines in the Far-Ultraviolet Spectra of Late-Type Stars", T.R. Ayres, et al.
- "The Statistical Equilibrium of Hydrogen and Helium in a Radiation Field", A.K. Bhatia and A.B. Underhill
- "The Ionization Structure of Planetary Nebulae V. NGC 3242", T. Barker
- "An Analysis of Scattered Light in Low Dispersion IUE Spectra", G. Basri, J.T. Clarke, B.M. Haisch
- "The Solar Stellar Connection in the Far Ultraviolet", J.O. Bennett, et al.
- "The FK Comae Candidate UZ Librae", B.W. Bopp, et al.
- "Atmospheric Properties of RU Lupi Derived from High-and Low-Resolution IUE Spectra", A. Brown, et al.
- "The Temperature of C II Emission Line Formation Regions in Cool Stars", A. Brown & K.G. Carpenter
- "Chromospheric Emission Lines in High-Resolution LWR Spectra (2200-3000 Å) of Gamma Cru (M3 III) and Alpha Ori (M2 Iab)" by K.G. Carpenter
- "The Geometric Extent of C II (UV 0.01) Emitting Regions Around Luminous, Late-Type Stars", K.G. Carpenter, et al.
- "IUE High Resolution Spectrophotometry of H Ly α Emission from the Local Interstellar Medium", J.T. Clarke, et al.
- "Interstellar Dust in the Large Magellanic Cloud", G.C. Clayton and P.G. Martin
- "Calibrations of Wavelengths in SWP Echelle Spectra" by M.C. De La Pena and T.R. Ayres
- "The Origin of Low-Velocity Absorption Components in the Magnesium II Resonance Lines of Hybrid-Chromosphere Stars", S.A. Drake, A. Brown and J.L. Linsky
- "Ultraviolet, Radio and X-ray Observations of Hybrid Stars", S.A. Drake, et al.
- "Far Ultraviolet Spectrophotometry of Two Very Hot O-Type Subdwarfs", J.S. Drilling, et al.

- "IUE and Voyager Observations of Very Hot O-Type Subdwarfs",
J.S. Drilling, et al.
- "The H-R Diagram of O-Type Subdwarfs" , J.S. Drilling and D. Schonberner
- "Dynamical Activity in V1016 Cygni: W.A. Feibelman, and R.P. Fahey
- "Ultraviolet Spectroscopy of Cometary Comae: An Update", P.D. Feldman
- "Highly Ionized Gas Associated with the SMC",
E.L. Fitzpatrick & B.D. Savage
- "Three Short-Period Binaries Seen at High-Dispersion: UX Ari,
Iota Tri and Hr 5110", I.R. Little-Marenin, et al.
- "Main Sequence B Stars with Strong Winds,"
D. Massa and B.D. Savage
- "IUE Absorption Line Studies of Highly Ionized Interstellar Gas",
B.D. Savage
- "Observations of Absorption Lines from Highly Ionized Atoms",
E.B. Jenkins
- "X-ray Luminosity and the Hydrogen Line Ratios of Quasars and
Seyfert Galaxies", G.A. Kriss
- "Extreme UV Emissions from Cool Star Outer Atmospheres",
M. Landini, et al.
- "Two New Color-Selected Magnetic DA White Dwarfs",
J. Liebert, et al.
- "Evidence for Non-Radiative Activity in Stars with $T_{\text{eff}} < 10,000 \text{ K}$ ",
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- "Observed and Computed Stellar Line Profiles: The Roles Played by
Partial Redistribution, Geometrical Extent and Expansion",
J. Linsky
- "Main Sequence B Stars with Strong Winds in the Core of NGC 6231",
D. Massa, et al.
- "Identification of the 1400 and 1600 Å Features Observed in the Ultraviolet
Spectra of DA White Dwarfs", E.P. Nelan and G. Wegner
- "Observational Studies of the Symbiotic Stars IV. High Dispersion IUE and
H α Observations of EG Andromedae, N.A. Oliverson, et al.
- "Ultraviolet Observations of the Be Star μ Centauri During its
Recent Active Phase", G.J. Peters

- "Ultraviolet Spectroscopic Observations of HD 77581", (Vela X-1 = 4U09900-40),
K. Sadakane, et al.
- "Galactic Interstellar Abundance Surveys with IUE. I. Neutral Hydrogen",
J.M. Shull and M.E. Van Steenberg
- "Ultraviolet Spectral Evolution and Heavy Element Abundances in
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- "BL Lacertae Objects: Multifrequency Observations and Model Applications",
D.M. Worrall
- "Multifrequency Observations of the BL Lacertae Objects
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- "Multifrequency Spectral Behavior of the BL Lac Objects
OI 90.4 and 3C 66A", D.M. Worrall, et al.
- "Multifrequency Observations of the QSO Ton 1542, D.M. Worrall, et al.
- "A Progress Report on the Analysis of Long Exposure SWP High Resolution
Spectra of Cool Stars", J.L. Linsky, et al.

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- "Sigma Geminorum (K1 III + ?): Variability of the Ultraviolet Emission Lines Near Conjunction", T.R. Ayres, et al. *The Astrophysical Journal*, 279, 197-201, 1984
- "Inflow of Halo Gas from the Direction of the Galactic North Pole", K.S. de Boer and B. Savage *Astron. Astrophys.*, 136, L7-L8, 1984
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- "Quasars as Probes of the Intergalactic Medium", R.F. Green and J. Bechtold, *Proc. 4th European IUE Conference*, 15-18 May 1984
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- "Interstellar Absorption Lines in the Spectrum of Supernova Evans in M83 (NGC 5236)", E.B. Jenkins, et al., *Astrophysical J.*, 281, 1984
- "Symbiotic Stars", M. Kafatos and A.G. Michalitsianos, 1984 *Sci. Amer.*, 251, p. 84
- "The Central Star of the Planetary Nebula Abell 78", J.B. Kaler and W.A. Feibelman, *The Astrophysical Journal*, 282, 719-727, 1984
- "Ultraviolet Spectroscopy of the Planetary Nebula in the Fornax Galaxy", S.P. Maran, et al., *The Astrophysical Journal*, 280, 615-617, 1984
- "Coordinated Multifrequency Observations of the BL Lacertae Objects MRK 180 and MRK 501", S.L. Mufson, et al., *The Astrophysical Journal*, 285, 571-579, 1984
- "Evidence for a High-Temperature Accretion Region in Algol-Type Binary Systems", G.J. Peters and R.S. Polidan, *The Astrophysical Journal*, 283, 1984

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- "The IUE Spectrum of γ_1 Velorum, J. Sahade and C.. Hernandez, P.A.S.P., 96, #575, 1984
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- "Effective Temperatures and Luminosities of Very Hot O Type Subdwarfs", D. Schonberner and J.S. Drilling, The Astrophysical Journal, 278, 702-710, 1984
- "On the Dispersion in Brightness of Far-Ultraviolet Emission Lines of Cool Giant Stars, T. Simon, The Astrophysical Journal, 279, 738-745, 1984
- "Comparison of the Jovian North and South Pole Aurorae Using the IUE Observatory", T.E. Skinner and H. Warren Moos, Geophysical Research Letters, Vol. 11, No. 11, Pages 1107-1110, November 1984
- "Stellar Chromospheres and Coronae in the Ursa Major Cluster Stars", F.M. Walter, et al., The Astrophysical Journal, 281, 815-825, 1984
- "The Absorption Near 1400 A in the Spectra of Additional DA White Dwarfs", G. Wegner, 1984, Astron. J., 89, 1050