

Bibliography from ADS file: cooper.bib  
September 14, 2022

- Garrard, T. L., Cooper, J., Cummings, A., et al., "The Space Physics Data System - Cosmic and Heliospheric Nodes", 1995icrc...24..84G [ADS](#)
- Tabisz, G. C., McQuarrie, B., Gao, B., & Cooper, J., "Collisional Interference in the Rotational Spectrum of HD-He", 1995ASPC...81..312T [ADS](#)
- Gao, B., Cooper, J., & Tabisz, G. C., "Rotational spectrum of HD perturbed by He or Ar gases: The effects of rotationally inelastic collisions on the interference between allowed and collisionally induced components", 1992PhRvA..46.5781G [ADS](#)
- Gao, B., Tabisz, G. C., Trippenbach, M., & Cooper, J., "Spectral line shape arising from collisional interference between electric-dipole-allowed and collision-induced transitions", 1991PhRvA..44.7379G [ADS](#)
- Cooper, J. & Kohl, H., "Estimation of ion velocity and temperature from asymmetric model incoherent scatter spectra", 1990JATP...52..483C [ADS](#)
- Kelleher, D. E., Oza, D. H., Cooper, J., & Greene, R. L., "An overview of the ion dynamic effect in line broadening, and a generalization of the unified theory.", 1990JQSRT..44..101K [ADS](#)
- Cooper, J. & Kohl, H., "Asymmetric incoherent scatter spectra from a relaxation collision model", 1990JATP...52..133C [ADS](#)
- Cooper, J., Ballagh, R. J., & Hubený, I., "Approximate Formulation of Redistribution in the LY alpha, LY beta, H alpha System", 1989ApJ...344..949C [ADS](#)
- Cooper, J., Ballagh, R. J., & Hubený, I.: 1989b, *Redistribution in astrophysically important hydrogen lines* 1989STIN...8924251C [ADS](#)
- Streater, A., Cooper, J., & Rees, D. E., "Transfer and Redistribution of Polarized Light in Resonance Lines. I. Quantum Formulation with Collisions", 1988ApJ...335..503S [ADS](#)
- Streater, A., Molander, W., & Cooper, J., "Experiments on time-dependent radiative transfer in a spectral line.", 1988JQSRT..40..101S [ADS](#)
- Streater, A. & Cooper, J., "Direct probing of the radiation field in optically thick environments.", 1988JQSRT..39..495 [ADS](#)
- Jacobs, V. L., Cooper, J., & Haan, S. L., "Unified description of radiative and dielectronic recombination, including the coupling between autoionization and radiation continua", 1987PhRvA..36.1093J [ADS](#)
- Chupp, E. L., Debrunner, H., Flueckiger, E., et al., "Solar Neutron Emissivity during the Large Flare on 1982 June 3", 1987ApJ...318..913C [ADS](#)
- Streater, A., Cooper, J., & Sandle, W., "On time-dependent radiative transfer.", 1987JQSRT..37..151S [ADS](#)
- Belsley, M., Streater, A., Burnett, K., Ewart, P., & Cooper, J., "Observation of radiative transfer of polarized light.", 1986JQSRT..36..163B [ADS](#)
- Hubený, I. & Cooper, J., "Redistribution of Radiation in the Presence of Velocity-changing Collisions", 1986ApJ...305..852H [ADS](#)
- Belsley, M., Alford, W. J., Burnett, K., & Cooper, J., "Effect of quasi-bound states on collisional redistribution.", 1986JQSRT..35..53B [ADS](#)
- Cooper, J. & Cummack, C. H., "The analysis of a travelling ionospheric disturbance with non-linear ionization response", 1986JATP...48..61C [ADS](#)
- Cummack, C. H. & Cooper, J., "The classification of distorted-mirror reflections and its ionospheric modification due to the underlying ionization", 1986JATP...48..51C [ADS](#)
- Forrest, D. J., Vestrand, W. T., Chupp, E. L., et al., "Very energetic gamma-rays from the 3 June 1982 solar flare", 1986AdSpR...6f.115F [ADS](#)
- Alber, G. & Cooper, J., "Two-photon collisional redistribution of radiation", 1985PhRvA..31.3644A [ADS](#)
- Lombardi, G. G., Kelleher, D. E., & Cooper, J., "Redistribution of radiation in the absence of collisions", 1985ApJ...288..820L [ADS](#)
- Alford, W. J., Andersen, N., Burnett, K., & Cooper, J., "Collisional redistribution of light: Far-wing line shapes and polarizations for the Ba-(Ar,Xe) systems", 1984PhRvA..30.2366A [ADS](#)
- Forrest, D. J., Vestrand, W. T., Rieger, E., et al., "Properties of Flares Having Emission > 10 MeV", 1984BAAS...16Q.475F [ADS](#)
- Cooper, J. & Zoller, P., "Radiative transfer equations in broad-band, time-varying fields", 1984ApJ...277..813C [ADS](#)
- Cooper, J., Hubený, I., & Oxenius, J., "On the line profile coefficient for stimulated emission", 1983A&A...127..224C [ADS](#)
- Alford, W. J., Burnett, K., & Cooper, J., "Polarization of collisionally redistributed light from the far wings of strontium-rare-gas systems", 1983PhRvA..27.1310A [ADS](#)
- Kleiber, P. D., Cooper, J., Burnett, K., Kunasz, C. V., & Raymer, M. G., "Theory of time-dependent intense-field collisional resonance fluorescence", 1983PhRvA..27..291K [ADS](#)
- Cooper, J., Ballagh, R. J., Burnett, K., & Hummer, D. G., "On redistribution and the equations for radiative transfer", 1982ApJ...260..299C [ADS](#)
- Cooper, J. & Smith, E. W., "Comment on the use of an exponential approximation for the Stark broadening of hydrogen lines.", 1982JQSRT..27..665C [ADS](#)
- Yelnik, J. B., Burnett, K., Cooper, J., Ballagh, R. J., & Voslamber, D., "Redistribution of radiation for the wings of Lyman-alpha", 1981ApJ...248..705Y [ADS](#)
- Smith, E. W., Talin, B., & Cooper, J., "An analysis of Markovian model microfield methods for Stark broadening.", 1981JQSRT..26..229S [ADS](#)
- Burnett, K. & Cooper, J., "Collisional redistribution of radiation. III. The equation of motion for the correlation function and the scattered spectrum", 1980PhRvA..22.2044B [ADS](#)
- Burnett, K. & Cooper, J., "Collisional redistribution of radiation. II. The effects of degeneracy on the equations of motion for the density matrix", 1980PhRvA..22.2027B [ADS](#)
- Burnett, K., Cooper, J., Ballagh, R. J., & Smith, E. W., "Collisional redistribution of radiation. I. The density matrix", 1980PhRvA..22.2005B [ADS](#)
- Thomann, P., Burnett, K., & Cooper, J., "Observation of dynamic correlations in collisional redistribution and depolarization of light", 1980PhRvL..45.1325T [ADS](#)
- Cooper, J., Ballagh, R. J., & Burnett, K., "Zeeman degeneracy effects in collisional intense-field resonance fluorescence", 1980PhRvA..22..535C [ADS](#)
- Raymer, M. G. & Cooper, J., "Resonance fluorescence in a weak radiation field with arbitrary spectral distribution", 1979PhRvA..20.2238R [ADS](#)
- Rousselot, D. C., Cooper, J., & Ballagh, R. J., "Redistribution Theory of Lyman  $\beta$  Radiation", 1979BAAS...11..411R [ADS](#)
- Cooper, J., "Redistribution of scattered radiation by collisions in the nonimpact region of the spectral line profile.", 1979ApJ...228..339C [ADS](#)
- Freudenstein, S. & Cooper, J., "Stark broadening of Fe I 5383 Å", 1979A&A...71..283F [ADS](#)
- Cooper, J. & Ballagh, R. J., "Role of collisional repopulation of atomic levels on coherent and redistributed components in resonant light scattering", 1978PhRvA..18.1302C [ADS](#)
- Freudenstein, S. A. & Cooper, J., "A simple formula for estimating Stark widths of neutral lines.", 1978ApJ...224.1079F [ADS](#)
- Ballagh, R. J. & Cooper, J., "The angular dependence of partially redistributed resonance radiation.", 1977ApJ...213..479B [ADS](#)
- Baur, J. F. & Cooper, J., "A shock tube study of line broadening in a temperature range of 6100 to 8300 K", 1977JQSRT..17..311B [ADS](#)
- Cooper, J. & Stacey, D. N., "Correlations between Doppler and pressure broadening for the resonance interaction", 1975PhRvA..12.2438C [ADS](#)
- Ott, W. R., Slater, J., Cooper, J., & Gieres, G., "H<sup>-</sup> shape-resonance studies in an arc plasma", 1975PhRvA..12.20090 [ADS](#)
- Greene, R. L., Cooper, J., & Smith, E. W., "A unified theory of Stark broadening for hydrogenic ions-I. A general theory (including time ordering).", 1975JQSRT..15..1025G [ADS](#)
- Greene, R. L. & Cooper, J., "On the effect of time-ordering for Lyman-alpha.", 1975JQSRT..15..991G [ADS](#)
- Barnard, A. J., Cooper, J., & Smith, E. W., "Stark broadening tables for He I lambda 4922 Å", 1975JQSRT..15..4429B [ADS](#)
- Mihalas, D., Barnard, A. J., Cooper, J., & Smith, E. W., "He I lambda 4922 profiles in B stars: calculations with an improved line broadening theory.", 1975ApJ...197..139M [ADS](#)
- Greene, R. L. & Cooper, J., "A unified theory of Stark broadening for hydrogenic ions-II. Results for He II Lyman-alpha.", 1975JQSRT..15..1045G [ADS](#)
- Greene, R. L. & Cooper, J., "A unified theory of Stark broadening for hydrogenic ions-II. Line wings.", 1975JQSRT..15..1037G [ADS](#)
- Mihalas, D., Barnard, A. J., Cooper, J., & Smith, E. W., "He I lambda 4471 profiles in B stars: calculation with an improved line-broadening theory.", 1974ApJ...190..315M [ADS](#)
- Barnard, A. J., Cooper, J., & Smith, E. W., "The broadening of He I lines including ion dynamic corrections, with application to lambda 4471 Å.", 1974JQSRT..14..1025B [ADS](#)
- Ward, J., Cooper, J., & Smith, E. W., "Correlation effects in the theory of combined Doppler and pressure broadening - I. Classical theory.", 1974JQSRT..14..555W [ADS](#)
- Omont, A., Smith, E. W., & Cooper, J., "Redistribution of Resonance Radiation. II. the Effect of Magnetic Fields", 1973ApJ...182..2830 [ADS](#)
- Stewart, J. C., Peek, J. M., & Cooper, J., "Satellites to LYMAN-a due to Protons", 1973ApJ...179..983S [ADS](#)
- Smith, E. W., Cooper, J., & Roszman, L. J., "An analysis of the unified and scalar additivity theories of spectral line broadening.", 1973JQSRT..13.1523S [ADS](#)
- Vidal, C. R., Cooper, J., & Smith, E. W., "Hydrogen Stark-Broadening Tables", 1973ApJS...25..37V [ADS](#)
- Omont, A., Smith, E. W., & Cooper, J., "Redistribution of Resonance Radiation. I. The Effect of Collisions", 1972ApJ...175..1850 [ADS](#)
- Jalufka, N. W. & Cooper, J., "Overlap of Argon Ion Spectra with Satellites to the Lyman-Alpha Lines of Carbon and Boron", 1972ApJ...171..647J [ADS](#)
- Cooper, J. & Evans, J. M., J., "Determination of Van der Waals broadening at temperatures of astrophysical interest.", 1972JQSRT..12..259C [ADS](#)

- Smith, E. W., Cooper, J., Chappell, W. R., & Dillon, T., "An impact theory for Doppler and pressure broadening - II. Atomic and molecular systems.", 1971JQSRT..11.1567S [ADS](#)
- Smith, E. W., Cooper, J., Chappell, W. R., & Dillon, T., "An impact theory for Doppler and pressure broadening - I. General theory.", 1971JQSRT..11.1547S [ADS](#)
- Stacey, D. N. & Cooper, J., "Non-adiabatic effects in Van der Waals broadening.", 1971JQSRT..11.1271S [ADS](#)
- Vidal, C. R., Cooper, J., & Smith, E. W., "Unified theory calculations of Stark broadened hydrogen lines including lower state interactions.", 1971JQSRT..11..263V [ADS](#)
- Vidal, C. R., Cooper, J., & Smith, E. W.: 1970, *Hydrogen Stark broadening calculations with the unified classical path theory.* 1970hsbc.book.....V [ADS](#)
- Chappell, W. R., Cooper, J., & Smith, E. W., "Non-thermal effects in Stark broadening.", 1970JQSRT..10..1195C [ADS](#)
- Vidal, C. R., Cooper, J., & Smith, E. W., "Hydrogen Stark broadening calculations with the unified classical path theory", 1970JQSRT..10..1011V [ADS](#)
- Barnard, A. J. & Cooper, J., "Computed profiles of He I 5016 Å at high electron densities.", 1970JQSRT..10..695B [ADS](#)
- Smith, E. W., Cooper, J., & Vidal, C. R., "Unified Classical-Path Treatment of Stark Broadening in Plasmas", 1969PhRv..185..140S [ADS](#)
- Cooper, J. & Oertel, G. K., "Electron-Impact Broadening of Isolated Lines of Neutral Atoms in a Plasma. I", 1969PhRv..180..286C [ADS](#)
- Barnard, A. J., Cooper, J., & Shamey, L. J., "The broadening of He I 4471 Å and its forbidden components.", 1969MSRSL..25..89B [ADS](#)
- Barnard, A. J., Cooper, J., & Shamey, L. J., "10. The Broadening of He I 4471 Å and its Forbidden Components", 1969LIACo..15..89B [ADS](#)
- Oettinger, P. E. & Cooper, J., "Stark broadening of the Na I 5682 - 88 Å and 4978 - 82 Å lines.", 1969JQSRT..9..5910 [ADS](#)
- Chappell, W. R., Cooper, J., & Smith, E. W., "Electron correlations in Stark broadening", 1969JQSRT..9..149C [ADS](#)
- Shen, K. Y. & Cooper, J., "On Strong Collisions in Hydrogenic Line Broadening", 1969ApJ...155..37S [ADS](#)
- Barnard, A. J., Cooper, J., & Shamey, L. J., "Calculated Profiles of He I 4471 and 4922 Å and their Forbidden Components", 1969A&A.....1..28B [ADS](#)
- Cooper, J., "Plasma spectroscopy", 1966RPPh...29..35C [ADS](#)