

BIOGRAPHICAL INFORMATION

Name: Margo F. Aller
Title: Research Scientist

Education:

B. A., Vassar College, 1960
Special Student, Harvard University, 1961-62
M. S., University of Michigan, 1964
Ph. D., University of Michigan, 1969

Academic and Professional Experience:

Research Scientist, University of Michigan, Department of Astronomy, 1985-present
Lecturer, University of Michigan, Department of Astronomy, winter term 2003
Associate Research Scientist, University of Michigan, Department of Astronomy, 1976-85
Research Associate, University of Michigan, Department of Astronomy, 1970-76
Teaching Fellow, University of Michigan, Fall Term 1969
Research Assistant, University of Michigan, 1966-68 (Asst. to G. Elste)
Research Assistant, Summer 1965 (Asst. to D. Wentzel)
Teaching Fellow, University of Michigan, 1964-66
Research Assistant, National Radio Astronomy Observatory, Summer 1964 (Asst. to C. Wade)
Research Assistant, Summer 1963 (Asst. to D. Wentzel)
Teaching Fellow, University of Michigan, 1962-64
Mathematician Programmer, Smithsonian Astrophysical Observatory, 1960-62

Student Assistant, Royal Greenwich Observatory, Summer 1959 (Asst. to O. J. Eggen)

Student Assistant, Maria Mitchell Observatory, Summer 1958 (Asst. to D. Hoffleit)

Membership in Professional Societies:

Sigma Xi

American Astronomical Society

International Astronomical Union

URSI

Honors and Recognition:

Who's Who in the Midwest

Who's Who in Science and Engineering

Who's Who of American Women

Who's Who in America

Who's Who in the World

American Men and Women of Science

Selected Committees in the Astronomical Community:

National Radio Astronomy Observatory Users' Committee (1984-1986)

NRAO, IUE/EUVE, RXTE, CGRO, CHANDRA, *Fermi*, and NSF Peer Review Panels

Compton Fellowship Panelist

Scientific Organizing Committee for the International Workshop *Blazar Continuum Variability* held at Florida International University on February 4-7, 1996

Scientific Organizing Committee for the International Conference *BL Lac Phenomenon* Turku, Finland, June 22-26, 1998

Scientific Organizing Committee for the International Conference *Blazar*

Variability Workshop II: Entering the GLAST Era, held at Florida International University 10-12 April 2005 and a co-editor of the conference proceedings

Scientific Organizing Committee for the Conference *Multiwavelength Variability of Blazars* held in Guangzhou, China September 22-24, 2010

Research Fields:

Radio Astronomy, Active Extragalactic Sources

Technical Experience:

Numerical analysis and systems programming using both assembler and compiler level languages

PUBLICATIONS

Refereed Journals

1. “A Model Atmosphere Analysis of the Ap Star Kappa Cancri,” *Astron. & Astrophys.*, **6**, pp. 67-84, 1970.
2. “The Possible Identification of Promethium in HR 465” (with C. R. Cowley), *ApJ*, **162**, pp. L145-148, 1970.
3. “The Hg II Line in HR 465” (with C. R. Cowley), *Astrophysical Letters*, **9**, 159, 1971.
4. “Polynomial Approximation of Partition Functions for Rare-Earth Elements” (with C. H. M. Everett), *ApJ*, **172**, pp. 447-450, 1972.
5. “Comments on the Identification of Promethium in HR 465” (with C. R. Cowley), *ApJ*, **175**, pp. 477-480, 1972.
6. “A Model Atmosphere Analysis of the Ap Star HR 465,” *Astron. & Astrophys.*, **19**, pp. 248-260, 1972.
7. “Comments on the Paper ‘Is There Promethium in HR 465’” (with C. R. Cowley), *Astron. & Astrophys.*, **19**, p. 286, 1972.
8. “Abundances of Trace Elements in HR 465: Evidence for the r-Process” (with C. R. Cowley, M. R. Hartog, & A. P. Cowley), *ApJ*, **183**, pp. 127-131, 1973.
9. “Linear Polarization and Flux Density Variations in the Radio Source 3C 120” (with H. D. Aller & E. T. Olsen), *AJ*, **81**, pp. 738-742, 1976.
10. “The Polarization of Outbursts in Extra-Galactic Variable Sources at Centimeter Wavelengths” (with H. D. Aller & P. E. Hodge), *AJ*, **86**, pp. 325-339, 1981.
11. “Radio Polarization Rotators: BL Lacertae and 0727–115” (with P. E. Hodge & H. D. Aller), *ApJ. Letters*, **248**, pp. L5-L8, 1981.
12. “Multifrequency Observations of the Red QSO 1413+135” (with J. N. Bregman, M. J. Lebofsky, G. H. Rieke, H. D. Aller, P. E. Hodge, A. E. Glassgold, & P. J. Huggins), *Nature*, **293**, pp. 714-717, 1981.
13. “Simultaneous Observations of the BL Lacertae Object I Zw 187” (with J. N. Bregman, A. E. Glassgold, P. J. Huggins, J. T. Pollock, A. J. Pica, A. G. Smith, J. R. Webb, W. H.-M. Ku, R. J. Rudy, P. D. LeVan, P. M. Williams, P. W. J. L. Brand, G. Neugebauer, T. J. Balonek, W. A. Dent, H. D. Aller, & P. E. Hodge), *ApJ*, **253**, pp. 19-27, 1982.

14. “Two Multifrequency Observations of the BL Lacertae Object OJ 287” (with D. M. Worrall, J. J. Puschell, B. Jones, F. C. Bruhweiler, H. D. Aller, P. E. Hodge, M. L. Sitko, W. A. Stein, Y. X. Zhang, & W. H.-Ku), *ApJ*, **261**, pp. 403-411, 1982.
15. “Dramatic Variations in the Polarization of ”BL Lacertae: Shocks and Gas?” (with H. D. Aller & P. E. Hodge), *ApJ Letters*, **274**, pp. L19-L22, 1983.
16. “The QSO 1156+295: A Multifrequency Study of Recent Activity” (with B. J. Wills, J. T. Pollock, H. D. Aller, T. J. Balonek, R. E. Barvainis, R. P. Binzel, F. H. Chaffee, Jr., W. A. Dent, J. N. Douglas, C. Fanti, D. B. Garrett, L. Gregorini, R. B. C. Henry, R. E. Hill, R. Howard, N. Jeske, S. O. Kepler, R. J. Leacock, F. Mantovani, C. P. O’Dea, L. Padrielli, P. Perley, A. J. Pica, J. J. Puschell, N. Sanduleak, G. A. Shields, A. G. Smith, T. X. Thuan, C. M. Wade, A. J. Wasilewski, J. R. Webb, D. Wills, & W. Z. Wisniewski), *ApJ*, **274**, pp. 62-85, 1983.
17. “Multifrequency Observations of the Flaring Quasar 1156+295” (with A. E. Glassgold, J. N. Bregman, P. J. Huggins, A. L. Kinney, A. J. Pica, J. T. Pollock, R. J. Leacock, A. G. Smith, J. R. Webb, W. Z. Wisniewski, N. Jeske, H. Spinrad, R. B. C. Henry, J. S. Miller, C. Impey, G. Neugebauer, H. D. Aller, P. E. Hodge, T. J. Balonek, W. A. Dent, & C. P. O’Dea), *ApJ*, **274**, pp. 101-112, 1983.
18. “Multifrequency Observations of the BL Lac Object 0735+178” (with J. N. Bregman, A. E. Glassgold, P. J. Huggins, H. D. Aller, P. E. Hodge, G. H. Rieke, M. J. Lebofsky, J. T. Pollock, A. J. Pica, R. J. Leacock, A. G. Smith, J. Webb, T. J. Balonek, W. A. Dent, W. H.-M. Ku, D. A. Schwartz, J. S. Miller, R. J. Rudy, & P. D. Levan), *ApJ*, **276**, pp. 454-465, 1984.
19. “Two Multifrequency Observations of 3C 371” (with D. M. Worrall, J. J. Puschell, F. C. Bruhweiler, H. R. Miller, R. J. Rudy, W. H.-M. Ku, H. D. Aller, P. E. Hodge, K. Matthews, G. Neugebauer, B. T. Soifer, J. R. Webb, A. J. Pica, J. T. Pollock, A. G. Smith, & R. J. Leacock), *ApJ*, **278**, pp. 521-529, 1984.
20. “Multifrequency Observations of the BL Lacertae Objects OQ 530 and ON 325” (with D. M. Worrall, J. J. Puschell, F. C. Bruhweiler, M. L. Sitko, W. A. Stein, H. D. Aller, P. E. Hodge, R. J. Rudy, H. R. Miller, W. Z. Wisniewski, F. A. Cordova, & K. O. Mason), *ApJ*, **284**, pp. 512-518, 1984.
21. “Coordinated Multifrequency Observations of the BL Lacertae Objects

- Markarian 180 and Markarian 501” (with S. L. Mufson, D. J. Hutter, K. R. Hackney, R. L. Hackney, C. M. Urry, R. F. Mushotzky, Y. Kondo, W. Z. Wisniewski, H. D. Aller, & P. E. Hodge), *ApJ*, **285**, pp. 571-579, 1984.
22. “Multifrequency Spectral Behavior of the BL Lac Objects 0I 90.4 and 3C 66A” (with D. M. Worrall, J. J. Puschell, J. M. Rodriguez-Espinosa, F. C. Bruhweiler, H. R. Miller, & H. D. Aller), *ApJ*, **286**, pp. 711-717, 1984.
 23. “Multifrequency Observations of the Quasi-Stellar Object Ton 1542” (with D. M. Worrall, J. J. Puschell, F. C. Bruhweiler, H. R. Miller, & H. D. Aller), *PASP*, **96**, pp. 699-704, 1984.
 24. “The Bursting Behavior of the BL Lacertae Object B2 1308+326 ” (with S. L. Mufson, W. A. Stein, W. Z. Wisniewski, J. Pollock, & H. D. Aller), *ApJ*, **288**, pp. 718-724, 1985.
 25. “Magnetic Field Structures in Active Compact Radio Sources” (with T. W. Jones, L. Rudnick, H. D. Aller, P. E. Hodge, & R. L. Fiedler), *ApJ*, **290**, pp. 627-636, 1985.
 26. “Broadband Polarization Observations of Active Compact Radio Sources” (with L. Rudnick, T. W. Jones, H. D. Aller, P. E. Hodge, F. N. Owen, R. L. Fiedler, J. J. Puschell, & R. C. Bignell), *ApJ Supplement*, **57**, pp. 693-709, 1985.
 27. “Spectra and Linear Polarizations of Extragalactic Variable Sources at Centimeter Wavelengths” (with H. D. Aller, G. E. Latimer, & P. E. Hodge), *ApJ Supplement*, **59**, pp. 513-768, 1985.
 28. “Polarized Radio Outbursts in BL Lacertae: I. Polarized Emission From A Compact Jet” (with H. D. Aller & P. A. Hughes), *ApJ*, **298**, pp. 296-300, 1985.
 29. “Polarized Radio Outbursts in BL Lacertae: II. The Flux and Polarization of a Piston Driven Shock” (with P. A. Hughes & H. D. Aller), *ApJ*, **298**, pp. 301-315, 1985.
 30. “Multifrequency Observations of The Superluminal Quasar 3C 345” (with J. N. Bregman, A. E. Glassgold, P. J. Huggins, G. Neugebauer, B. T. Soifer, K. Matthews, J. Elias, J. Webb, J. T. Pollock, A. J. Pica, R. J. Leacock, A. G. Smith, H. D. Aller, P. E. Hodge, W. A. Dent, T. J. Balonek, R. E. Barvainis, T. P. L. Roellig, W. Z. Wisniewski, G. H. Rieke, M. J. Lebofsky, B. J. Wills, D. Wills, W. H.-M. Ku, J. D. Bregman, F. C. Witteborn, D. F. Lester, C. D. Impey, & J. A. Hackwell), *ApJ*, **301**, pp. 708-726, 1986.

31. “Observations of Three BL Lacertae Objects: Constraints On Inhomogeneous Relativistically Beamed Jet Models” (with D. M. Worrall, J. M. Rodriguez-Espinosa, W. Z. Wisniewski, H. R. Miller, F. C. Bruhweiler, & H. D. Aller), *ApJ*, **303**, pp. 589-595, 1986.
32. “Shocks as the Origin of Radio Source Variability” (with P. A. Hughes & H. D. Aller), *Can. J. Phys.*, **64**, pp. 466-469, 1986.
33. “Multifrequency Observations of Low Frequency Variable Sources: A Statistical Analysis” (with L. Padrielli, H. D. Aller, C. Fanti, R. Fanti, A. Ficarra, L. Gregorini, F. Mantovani, & G. Nicolson), *Astron. & Astrophys. Suppl.*, **67**, pp. 63-86, 1987.
34. “Simultaneous Multifrequency Observations of the BL Lac Object Markarian 421” (with F. Makino, Y. Tanaka, M. Matsuoka, K. Koyama, H. Inoue, K. Makishima, R. Hoshi, S. Hahakawa, Y. Kondo, C. M. Urry, S. L. Mufson, K. R. Hackney, R. L. Hackney, S. Kikuchi, Y. Mikami, W. Z. Wisniewski, N. Hiromoto, M. Nishida, J. Burnell, P. Brand, P. M. Williams, M. G. Smith, F. Takahara, M. Inoue, M. Tsuboi, H. Tabara, T. Kato, & H. D. Aller), *ApJ*, **313**, pp. 662-673, 1987.
35. “Frequent Observations of Extragalactic Compact Sources at 24 GHz” (with T. F. Haddock & H. D. Aller), *AJ*, **93**, pp. 1356-1367, 1987.
36. “Radio Variability of the Blazar AO 0235+164” (with S. L. O’Dell, B. Dennison, J. J. Broderick, D. R. Altschuler, J. J. Condon, H. E. Payne, K. J. Mitchell, H. D. Aller, & P. E. Hodge), *ApJ*, **326**, pp. 668-679, 1988.
37. “Multifrequency Observation of the Optically Violent Variable Quasar 3C 446” (with J. N. Bregman, A. E. Glassgold, P. J. Huggins, A. L. Kinney, I. McHardy, J. R. Webb, J. T. Pollock, R. J. Leacock, A. G. Smith, A. J. Pica, H. D. Aller, P. E. Hodge, J. S. Miller, S. A. Stephens, W. A. Dent, T. J. Balonek, R. Barvainis, G. Neugebauer, C. D. Impey, B. T. Soifer, K. Matthews, J. H. Elias, & W. Z. Wisniewski), *ApJ*, **331**, pp. 746-763, 1988.
38. “Synchrotron Emission From Shocked Relativistic Jets. I. The Theory of Radio-Wavelength Variability and its Relation to Superluminal Motion” (with P. A. Hughes & H. D. Aller), *ApJ*, **341**, pp. 54-67, 1989.
39. “Synchrotron Emission From Shocked Relativistic Jets. II. A Model for the Centimeter Wave Band Quiescent and Burst Emission From BL Lacertae” (with P. A. Hughes & H. D. Aller), *ApJ*, **341**, pp. 68-79, 1989.
40. “Multifrequency Observations of BL Lacertae” (with J. N. Bregman, A. E.

Glassgold, P. J. Huggins, G. Neugebauer, B. T. Soifer, K. Matthews, J. H. Elias, J. R. Webb, J. T. Pollock, R. J. Leacock, A. G. Smith, H. D. Aller, P. A. Hughes, D. Maccagni, B. Garilli, P. Giommi, J. S. Miller, S. Stephens, T. J. Balonek, W. A. Dent, W. Kinsel, W. Z. Wisniewski, P. M. Williams, P. W. J. L. Brand, & W. H.-M. Ku), *ApJ*, **352**, 574-586, 1990.

41. “Multifrequency VLA, VLBI, and Single-Dish Observations of the Quasar 4C 39.25” (with A. P. Marscher, Y. F. Zhang, D. B. Shaffer, & H. D. Aller), *ApJ*, **371**, pp. 491-500, 1991.
42. “Synchrotron Emission From Shocked Relativistic Jets. III. Models for the Centimeter Waveband Quiescent and Burst Emission From 3C 279 and OT 081”, (with P. A. Hughes & H. D. Aller), *ApJ*, **374**, pp. 57-71, 1991.
43. “Multifrequency Observations of BL Lacertae in 1988” (with N. Kawai, M. Matsuoka, J. N. Bregman, H. D. Aller, P. A. Hughes, S. A. Balbus, T. J. Balonek, K. C. Chambers, R. E. S. Clegg, S. D. Clements, R. J. Leacock, A. G. Smith, R. Goodrich, J. S. Miller, M. Hereld, M. G. Hoare, V. A. Hughes, G. K. Miley, G. H. Moriarty-Schieven, K. Matthews, G. Neugebauer, T. Ohashi, P. F. Roche, H. A. Thronson, E. Valtaoja, H. Teräsranta, J. R. Webb, B. J. Wills & D. Wills), *ApJ*, **382**, pp. 508-514, 1991.
44. “The Milliarcsecond Structure of Highly Variable Radio Sources” (with A. E. Wehrle, M. H. Cohen, S. C. Unwin, H. D. Aller, & G. Nicolson), *ApJ*, **391**, pp. 589-607, 1992.
45. “The University of Michigan Radio Astronomy Database I. Structure Function Analysis and the Relation Between BL Lacertae Objects and Quasi-Stellar Objects” (with P. A. Hughes, & H. D. Aller), *ApJ*, **396**, pp. 469-486, 1992.
46. “Pearson-Readhead Survey Sources: Properties of the Cm-Wavelength Flux and Polarization of a Complete Radio Sample” (with H. D. Aller, & P. A. Hughes), *ApJ*, **399**, pp. 16-28, 1992.
47. “A Comparison of the Radio-Submillimetre Spectra of BL Lacertae Objects and Flat-Spectrum Radio Quasars” (with W. K. Gear, J. A. Stevens, D. H. Hughes, S. J. Litchfield, E. I. Robson, H. Teräsranta, E. Valtaoja, H. Steepe, & H. D. Aller), *MNRAS*, **267**, pp. 167-186, 1994.
48. “The Multifrequency Spectral Evolution of Blazar 3C 345 During the 1991 Outburst” (with J. R. Webb, C. R. Shrader, T. J. Balonek, D. M. Crenshaw, D. Kanzanas, S. Clements, A. G. Smith, A. D. Nair, R. J. Leacock, P. P. Gombola, A. Sadun, H. R. Miller, I. Robson, R.

- Fujimoto, F. Makino, T. Kii, H. Aller, P. Hughes, E. Valtaoja, H. Teräsranata, E. Salonen, M. Tornikoski, & W. Chism), *ApJ*, **422**, pp. 570-585, 1994.
49. “Radio and X-Ray Observations of the γ -Ray Bright Quasar PKS 0528+134” (with Y. F. Zhang, A. P. Marscher, H. D. Aller, H. Teräsranata, & E. Valtaoja), *ApJ*, **432**, pp. 91-102, 1994.
 50. “Unusual Evolution in the VLBI Structure of 0735+178” (with D. C. Gabuzda, J. F. C. Wardle, D. H. Roberts, & H. D. Aller), *ApJ*, **435**, pp. 128-139, 1994.
 51. “Radio, Millimeter-Submillimeter, and Infrared Spectra of Flat-Spectrum Extragalactic Radio Sources” (with S. D. Bloom, A. P. Marscher, W. K. Gear, H. Teräsranata, E. Valtaoja, & H. D. Aller), *AJ*, **108**, pp. 398-404, 1994.
 52. “The 1993 Multiwavelength Campaign on 3C 279. I. The Radio to γ -ray Energy Distribution in Low State” (with L. Maraschi, P. Grandi, C. M. Urry, A. E. Wehrle, G. M. Madejski, H. H. Fink, G. Ghisellini, R. C. Hartman, A. P. Koratkar, E. Pian, H. C. Thomas, A. Treves, H. D. Aller, C. D. Bailyn, T. J. Balonek, H. Bock, W. Collmar, I. S. Glass, S. Lichfield, I. M. McHardy, R. Méndez, J. Pesce, H. P. Reuter, E. I. Robson, H. Steepe, J. A. Stevens, H. Teräsranata, & S. J. Wagner), *ApJ Letters*, **435**, pp. L91-L95, 1994.
 53. “Multi-Wavelength Monitoring of the BL Lac Object PKS 2155-304” (with R. Edelson *et al.*), *ApJ*, **438**, pp. 120-134, 1995.
 54. “EGRET gamma-ray sources: GRO J0744+54 and GRO J0957+65 (= BL Lac Object 0954+658)” (with R. Mukherjee *et al.*), *ApJ*, **445**, pp. 189-195, 1995.
 55. “Correlation Analysis of Optical and Radio Light Curves for a Large Sample of Active Galactic Nuclei” (with S. D. Clements, A. G. Smith, & H. D. Aller), *AJ*, **110**, pp. 529-550, 1995.
 56. “Multi-Wavelength Observations of Mkn 421 During a Tev/X-ray Flare” (with D.J. Macomb *et al.*), *ApJ Letters*, **449**, pp. L99-L103, 1995. [Erratum *ApJ*, **459**, p. L111, 1996]
 57. “3C 279 Multiwavelength Monitoring. II., The Ground-Based Campaign” (with P. Grandi, C. M. Urry, L. Maraschi, A. E. Wehrle, G. M. Madejski, H. D. Aller, C. D. Bailyn, T. J. Balonek, T. H. Bock, I. S. Glass, S. J. Litchfield, I. M. McHardy, J. S. Mulchaey, H.-P. Reuter, E. I. Robson, A. C. Sadun, W. Sherry, H. Steepe, J. A. Stevens, H. Teräsranata, M. Tornikowski, & S. J. Wagner), *ApJ*, **459**, pp. 73-81,

1996.

58. “Simultaneous Multiwavelength Spectrum and Variability of 3C 279 from 10^9 to 10^{24} Hz” (with R. C. Hartman, J. R. Webb, A. P. Marscher, J. P. Travis, H. D. Aller, T. J. Balonek, K. Bennett, S. D. Bloom, R. Fujimoto, W. Hermsen, P. Hughes, T. Kii, J. D. Kurfess, F. Makino, J. R. Mattox, C. von Montigny, H. Netzer, T. Ohashi, I. Robson, J. Ryan, A. Sadun, V. Schönfelder, A. G. Smith, H. Teräsraanta, M. Tornikoski, & M. J. L. Turner), *ApJ*, **461**, pp. 698-712, 1996.
59. “Rapid Variability in S5 0716+714 across the electromagnetic spectrum” (with S. J. Wagner, A. Witzel, J. Heidt, T. Krichbaum, S. J. Qian, A. Quirrenbach, R. Wegner, H. Aller, K. Anton, I. Appenzeller, A. Eckhart, A. Kraus, C. Naundorf, R. Kneer, W. Steffen, & A. Zensus), *AJ*, **111**, pp. 2187-2211, 1996.
60. “The Evolution of the Centimetre-Submillimetre Spectrum of 3C 345 during Outburst” (with J. A. Stevens, S. J., Litchfield, E. I., Robson, T. V. Cawthorne, H. D. Aller, P. A., Hughes, & M. C. H. Wright), *ApJ*, **466**, pp. 158-168, 1996.
61. “Monitoring of 3C 66A during an extended outburst. I. The light curves.”, (with L. O. Takola *et al.*), *Astron. & Astrophys. Supplement*, **120**, pp. 313-321, 1996.
62. “Variability in the Inverse-Compton X-ray Flux from the Jet in Quasar 3C 345” (with S. C. Unwin, A. E. Wehrle, A. P. Lobonov, J. A. Zensus, G. M. Madejski, & H. D. Aller), *ApJ*, **480**, pp. 596-606, 1997.
63. “Multifrequency monitoring of blazars OJ 287 and 3C 66A” (with L. O. Takola *et al.*), *Mem. S. A. It.*, **67**, pp. 545-550, 1996.
64. “A Gamma-ray Flare in NRAO 190” (with T. A. McGlynn *et al.*), *ApJ*, **481**, pp. 625-632, 1997.
65. “Multiwavelength Observations of 3C 273 in 1993-1995” (with C. von Montigny *et al.*), *ApJ*, **483**, pp. 161-177, 1997.
66. “A Dramatic Millimeter Wavelength Flare in the Gamma Ray Blazar NRAO 530” (with G. C. Bower, D. Backer, M. Wright, J. R. Foster, and H. D. Aller), *ApJ*, **484**, pp. 118-130, 1997.
67. “Multiwavelength Monitoring of the BL Lac Object PKS 2155-304 in 1994 May 1994: I. The Ground-Based Campaign” (with J. E. Pesce *et al.*), *ApJ*, **486**, pp. 770-783, 1997.
68. “Multiwavelength Observations of a Dramatic High-Energy Flare in the Blazar 3C 279”, (with A. E. Wehrle *et al.*), *ApJ*, **497**, pp. 178-187, 1998.

69. “Variability of the Centimeter-Submillimeter Spectrum and Polarization of 3C 273 During Outburst” (with J. A. Stevens, E. I. Robson, W. K. Gear, T. V. Cawthorne, H. D. Aller, H. Teräsranta, & M. C. H. Wright), *ApJ*, **502**, pp. 182-191, 1998.
70. “Extraordinary Activity in the BL Lac Object OJ 287” (with P. A. Hughes & H. D. Aller), *ApJ*, **503**, pp. 662-673, 1998.
71. “30 years of multi-wavelength observations of 3C 273”, (with M. Türlér, S. Paltani, T. J.-L. Courvoisier, H. D. Aller, A. Blecha, P. Bouchet, M. Lainela, I. M. McHardy, E. I. Robson, J. A. Stevens, H. Teräsranta, M. Tornikoski, M.-H. Ulrich, E. B. Waltman, W. Wamsteker, & M. C. H. Wright), *Astron. & Astrophys. Suppl.*, **134**, pp. 89-101, 1999.
72. “Unusual radio variability in the BL Lacertae object 0235+164”, (with A. Kraus, A. Quirrenbach, A. P. Lobanov, T. P. Krichbaum, M. Risse, P. Schneider, S. J. Qian, S. J. Wagner, A. Witzel, J. A. Zensus, J. Heidt, H. Bock, & H. Aller), *Astron. & Astrophys.*, **344**, pp. 807-816, 1999.
73. “Centimeter-Wavelength Total Flux and Linear Polarization Properties of Radio-Loud BL Lacertae Objects”, (with H. D. Aller, P. A. Hughes, & G. E. Latimer), *ApJ*, **512**, pp. 601-622, 1999.
74. “A Major Radio Outburst in III Zw 2 with an Extremely Inverted, Millimeter-Peaked Spectrum” (with H. Falcke *et al.*), *ApJ Letters*, **514**, pp. L17-L20, 1999.
75. “Radio and Optical Monitoring of 3C 66A during an extended outburst II. 1995-1997” (with L. O. Takalo *et al.*), *BLAZAR DATA*, Vol 1, n.6, 1999.
76. “Multiwaveband Observations of Quasars with Flat Radio Spectra and Strong Millimeter Wave Emission” (with S. D. Bloom *et al.*), *ApJ Supp*, **122**, pp. 1-27, 1999.
77. “Optical and radio behavior of the blazar S4 0954+65” (with C. M. Raiteri *et al.*), *Astron. & Astrophys.*, **352**, pp. 19-31, 1999.
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2. “Linear Polarization and Flux Density Variations in 3C 120 at 3.75 cm” (with H. D. Aller and E. T. Olsen), *B.A.A.S.*, **7**, 528, 1975.
3. “Linear Polarization and Total Flux Density Variations in 3C 273 at 8 GHz” (with H. D. Aller and E. T. Olsen), *B.A.A.S.*, **9**, 310, 1977.
4. “Non-Homogeneous Synchrotron-Source Models for Compact Variable Radio Sources” (with H. D. Aller), *B.A.A.S.*, **9**, 335, 1977.
5. “The University of Michigan Triple-Frequency Radio-Source Program” (with H. D. Aller & P. E. Hodge), *B.A.A.S.*, **11**, 443, 1979.
6. “Relativistic Jets and the Rotation of the Position Angle of 0727–115” (with P. E. Hodge & H. D. Aller), *B.A.A.S.*, **11**, 709, 1979.
7. “Partially-Opaque Extragalactic Variable Sources at Cm-Wavelengths” (with H. D. Aller & P. E. Hodge), *B. A. A. S.*, **11**, 716, 1979.
8. “The Rotation With Time of the Polarization Position Angle of 0727–115 at Cm-Wavelengths” (with H. D. Aller & P. E. Hodge), *B.A.A.S.*, **11**, 717, 1979.
9. “The Polarization Spectra of Radio Outbursts in Extragalactic Variable Sources” (with H. D. Aller & P. E. Hodge), *B.A.A.S.*, **12**, 462, 1980.
10. “Multifrequency Cm-Wavelength Observations of Active Extragalactic Sources” (with H. D. Aller & P. E. Hodge), *B.A.A.S.*, **12**, 803, 1980.
11. “Large, Rapid Changes in the Polarization Position Angle of the Centimeter Emission of BL Lacertae” (with P. E. Hodge & H. D. Aller), *B.A.A.S.*, **13**, 488, 1981.

12. “The Polarization Variability of 3C 279 at Cm-Wavelengths – A Source with Two Preferred Polarization Position Angles”, (with H. D. Aller & P. E. Hodge), *B.A.A.S.*, **13**, 844, 1981.
13. “Cm-Wavelength Observations of the Linear Polarization and Total Flux Density of Extragalactic Red and Infrared Objects” (with H. D. Aller & P. E. Hodge), *B.A.A.S.*, **13**, 844, 1981.
14. “Multifrequency Observations of Mrk 180 and Mrk 501” (with S. L. Mufson, D. J. Hutter, K. R. Hackney, R. L. Hackney, Y. Kondo, R. F. Mushotsky, C. M. Urry, W. Z. Wisniewski, H. D. Aller, & P. E. Hodge), *B.A.A.S.*, **14**, 649, 1982.
15. “Gas and Shocks in BL Lacertae” (with H. D. Aller & P. E. Hodge), *B.A.A.S.*, **14**, 934, 1982.
16. “Polarizations of Compact Extragalactic Sources Over 2 Decades in Frequency” (with L. Rudnick, T. W. Jones, H. D. Aller, P. E. Hodge, R. C. Bignell, F. N. Owen, & J. J. Puschell) *B.A.A.S.*, **15**, 648, 1983.
17. “Photometric History of the BL Lac Object B2 1308+326” (with S. L. Mufson, W. Z. Wisniewski, J. Pollock, H. D. Aller, & W. A. Stein). *B.A.A.S.*, **15**, 671, 1983.
18. “Coordinated Multifrequency Observations and Source Models of the BL Lac Objects MRK 180, MRK 421, and Mrk 501 (with D. J. Hutter *et al.*), *B.A.A.S.*, **15**, 876, 1983.
19. “The Second Highly Polarized Radio Burst in BL Lacertae” (with H. D. Aller), *B.A.A.S.*, **16**, No. 3, 406, 1984.
20. “Cm-Wavelength Fluxes and Polarizations of Active BL Lacertae-Type Objects” (with H. D. Aller), *B.A.A.S.*, **16**, No. 2, 460, 1984.
21. “Stochastic Stokes Formation and Rotations in Compact Extragalactic Sources” (with L. Rudnick, T. W. Jones, & H. D. Aller), *B.A.A.S.*, **16**, No. 2, 461, 1984.
22. “24 GHz Flux Density Measurements of Variable Extragalactic Radio Sources” (with T. F. Haddock & H. D. Aller), *B.A.A.S.*, **16**, No. 2, 520, 1984.
23. “Interpretation of Recent Outbursts in BL Lac” (with P. A. Hughes & H. D. Aller), *B.A.A.S.*, **16**, No. 4, 951, 1985.
24. “Cm-Wavelength Linear Polarizations and Spectra of Superluminal Radio Sources” (with H. D. Aller), *B.A.A.S.*, **16**, No. 4, 957, 1985.
25. “The Shocking Events in 3C 279” (with P. A. Hughes & H. D. Aller), *B.A.A.S.*,

- 17, 889, 1985.
26. “One Sided Jets in Compact Radio Sources” (with P. A. Hughes, H. D. Aller, & A. J. Allen), *B.A.A.S.*, **18**, 999, 1986.
 27. “Simultaneous Radio-Optical Polarization Observations of BL Lacertae Objects” (with H. D. Aller, T. Herbig, B. J. Wills, & D. Wills), *B.A.A.S.*, **18**, 1046, 1986.
 28. “The Evolution of the Radio Emission from the Supernova Remnants 3C 58, 3C 144 and 3C 461” (with H. D. Aller & S. P. Reynolds), *B.A.A.S.*, **18**, 1052, 1986.
 29. “Variability in the Intermediate Frequency Gap: Extrinsic or Intrinsic” (with H. D. Aller, M. Johnston, & P. Challis), *B.A.A.S.*, **20**, 1064, 1988.
 30. “The Origin of Cm-Waveband Radio Source Variability” (with P. A. Hughes & H. D. Aller), *B.A.A.S.*, **21**, 778, 1989.
 31. “The Green Bank-Michigan Monitoring Program: Observations of Low Frequency Variables at Intermediate Frequencies” (with H. D. Aller), *B.A.A.S.*, **23**, 1430, 1991.
 32. “Simultaneous Radio and X-Ray Observations of Active Extragalactic Objects During the ROSAT All Sky Survey” (with H. D. Aller, A. J. Mioduszewski, J. N. Bregman, P. A. Hughes, R. M. Wagner, H. H. Fink, & H. U. Zimmermann), *B.A.A.S.*, **24**, pp. 1172-1173, 1992.
 33. “Multifrequency Observation of the Optically Violent Variable Quasar 3C 279: Ground-based Campaign” (with P. Grandi *et al.*), *B.A.A.S.*, **25**, 1450, 1993.
 34. “The Evolving Radio Jet in BL Lacertae” (with H. D. Aller & P. A. Hughes), *B.A.A.S.*, **26**, 874, 1994.
 35. “Simultaneous Multifrequency Observations of Gamma-Emitting Blazars” (with R. C. Hartman *et al.*), *B.A.A.S.*, **26**, 1342, 1994.
 36. “Multiband Monitoring of OJ287 in 1993/94” (with M. Kidger, *et al.*), *B.A.A.S.*, **26**, 1506, 1994.
 37. “The Radio Properties of BL Lac Objects” (with H. D. Aller and P. A. Hughes), *B.A.A.S.*, **28**, 1406, 1996.
 38. “The Michigan Variability Program” (with H. D. Aller), *B.A.A.S.*, **28**, 1406, 1996.
 39. “A Gamma Ray Flare of the Blazar CTA 26” (with J. C. Hallum, J. Mat-

- tox, A. P. Marscher, E. Waltman, Harri Teräsranta, & H. D. Aller), *B.A.A.S.*, **29**, 1374, 1997.
40. “Rapid Variability in the BL Lacertae Object AO 0235+164” (with A. Quirrenbach *et al.*), *B.A.A.S.*, **30**, 862, 1998.
 41. “Analysis of Ground-Based Multi-Waveband Data for 3C 279” (with S. D. Bloom, A. E. Wehrle, S. C. Unwin, H. D. Aller, H. Teräsranta, & G. Tosti), *B.A.A.S.*, **30**, 1418, 1998.
 42. “Oblique Shocks in Extragalactic Relativistic Jets” (with H. D. Aller & P. A. Hughes), *B.A.A.S.*, **31**, 1548, 1999.
 43. “Radioband Properties of AGNs” (with H. D. Aller & P. A. Hughes), *B.A.A.S.*, **31**, 1397, 1999.
 44. “VLBI Observations of Rapidly-Evolving Jet Components” (with H. D. Aller, P. A. Hughes, J. F. C. Wardle, D. C. Homan, & D. H. Roberts), *B.A.A.S.*, **32**, 1523, 2000.
 45. “Comparison of the X-Ray and Radio Light Curves of Quasar PKS 1510-089” (with A. P. Marscher, S. G. Marchenko-Jorstad, I. M. McHardy, & H. D. Aller), *B.A.A.S.*, **32**, 1611, 2000.
 46. “Dips in X-ray Flux Associated with Superluminal Ejections in the Radio Galaxy 3C 120” (with A. P. Marscher, S. G. Jorstad, & J. L. Gomez), *B.A.A.S.*, **32**, 1611, 2000.
 47. “RXTE, VLBA, Optical and Radio Monitoring of the Quasars 3C 279, PKS, 1510-089, and 3C 273” (with A. P. Marscher, S. G. Jorstad, I. M. McHardy, & T. J. Balonek) *B.A.A.S.*, **33**, 1529, 2001.
 48. “The Longterm Centimeter-band Total Flux and Linear Polarization Properties of the Pearson-Readhead Survey Sources” (with H. D. Aller & P. A. Hughes), *B.A.A.S.*, **33**, 1516, 2001.
 49. “Oblique Shocks in AGN Jet Flows” (with H. D. Aller, P. A. Hughes, J. F. C. Wardle, D. H. Roberts, & D. C. Homan), *B.A.A.S.*, **33**, 1455, 2001.
 50. “Where the Action is in Blazar Jets: Multifrequency Monitoring and VLBI Imaging of 3C 273, 3C 279, PKS 1510-089, and BL Lac” (with A. P. Marscher, S. G. Jorstad, I. M. McHardy, T. J. Balonek, & A. Sokolow), *B.A.A.S.*, **34**, 1246, 2002.
 51. “X-Ray and TeV Gamma-Ray Observations of Very Strong Flares from the TeV Blazars 1ES 1959+650 and Markarian 421” (with H. Krawczynski *et al.*), HEAD Conference Proceedings (Abstract for Mt. Tremblant meeting spring 2003).

52. “The University of Michigan Radio Variability Program” (with H. D. Aller, G. E. Latimer, & P. A. Hughes), *B.A.A.S.*, **35**, 723, 2003.
53. “Radioband Observations of Blazars” , *B.A.A.S.*, **35**, 749, 2003 (Invited talk).
54. “Results and Discussion of Simultaneous Monitoring of the BL Lac Object PG 1553+11 in the Radio, Optical, and X-ray Regimes” (with M. A. Osterman et al.), *B.A.A.S.*, **35**, 1329, 2003.
55. “Circular Polarization of AGNs at Centimeter Wavelengths” (with H. D. Aller, R. M. Plotkin, P. A. Hughes, & P. E. Hodge), *B.A.A.S.*, **35**, 1310, 2003.
56. “BL Lac X-ray Spectra: Simpler than we thought” (with E. S. Perlman *et al.*), 203rd AAS Meeting, Late paper number 146.05, *B.A.A.S.*, **36**, p. 590, 2003.
57. “Intensive TeV Gamma-Ray and X-Ray Observations of the Blazar Mrk 421 in December 2002 and January 2003” (with P. F. Rebillot et al.), HEAD meeting 8, paper 04.24, *B.A.A.S.*, **36**, p. 912, 2004.
58. “Intrinsic Curvature in the X-ray Spectra of BL Lac Objects” (with E. S. Perlman *et al.*). HEAD meeting 8, paper 04.29, 2004.
59. “Multiwavelength Observations of 1ES 1959+650 in 2003. One Year After the Strong 2002 Outburst” (with K. Gutierrez, J. Grube, H. Krawczynski, H. Aller, P. Charlot, J. F. Le Campion, & the VERITAS Collaboration), *B.A.A.S.*, **37**, p. 462, 2005.
60. “Multifrequency Evolution of the Radio-Band Circular Polarization during an Outburst in 3C 279” (with H. D. Aller & P. A. Hughes), *B.A.A.S.*, **37**, 1221, 2005.
61. “Circular Polarization in AGNs: Polarity and Spectra” (with H. D. Aller & R. M. Plotkin), *B.A.A.S.*, **37**, 1371, 2005.
62. “Simultaneous Multiwavelength Observations of PKS 2155-304” (with M. A. Osterman, H. R. Miller, K. Marshall, W. T. Ryle, H. Aller, & S. Wagner), *B.A.A.S.*, **37**, 1398-1399, 2005.
63. “Exploring Blazar Jets through Multiwaveband Monitoring with RXTE, the VLBA, and Other Instruments” (with A. P. Marscher, S. G. Jorstad, & I. McHardy), *B.A.A.S.*, **37**, 1399, 2005.
64. “Correlated Multifrequency Variability in the Blazars 3C 279 and PKS 1510-089” (with R. Chatterjee, A. P. Marscher, S. G. Jorstad, & I. M. McHardy), *B.A.A.S.*, **38**, 904, 2006.

65. “Multi-frequency VLBA Observations of Circular Polarization from Extragalactic Radio Jets” (with D. C. Homan, M. L. Lister, H. D. Aller, & J. F. Wardle), *B.A.A.S*, **38**, 904, 2006.
66. “Cm-band Circular Polarization Spectral Variability from Blazars: Recent Results from the UMR AO Program” (with H. D. Aller & P. A. Hughes), *B.A.A.S*, **38**, 904, 2006.
67. “Multiple Circular Polarization Outbursts in the QSO 3C 279 at Centimeter Wavelengths” (with H. D. Aller & P. A. Hughes), *B.A.A.S*, **38**, 1226, 2006.
68. Fe-K Accretion Disk Diagnostics from Suzaku Observations of The LINER NGC 1052: A Tool to Probe Disk-jet Coupling” (with L. Brenneman *et al.*), *B.A.A.S*, **39**, 795, 2007.
69. “The Historic Optical Light Curve and 2007 Outburst of Quasar PKS 1749+096” (with T. J. Balonek *et al.*), *B.A.A.S*, **39**, 732, 2007.
70. “A Comprehensive Study of 3C 454.3 in Quiescent and Flaring States” (with W. T. Ryle *et al.*), *B.A.A.S*, **39**, 730, 2007.
71. “X-ray Dips and Superluminal Ejections in the Radio Galaxy 3C 120” (with A. Olmstead *et al.*), *B.A.A.S*, **40**, 218, 2008.
72. “Circular Polarization Variability of the Quasar 3C 279 at Centimeter Wavelengths” (with H. D. Aller & P. A. Hughes), *B.A.A.S.*, **41**, 241, 2009.
73. “Multi-frequency Observations of Circular Polarization Variability at Centimeter Band” (with H. D. Aller & P. A. Hughes), *B.A.A.S.*, **41**, 331, 2009.
74. “Optical Microvariability and Simultaneous Multiwavelength Observations of CTA 102 (PKS J2232+1143)” (with A. Osterman Meyer *et al.*), *B. A. A. S.*, **41**, 333, 2009.
75. “Comprehensive Multi-waveband Monitoring of Gamma-ray Bright Blazars” (with A. P. Marscher *et al.*), *B. A. A. S.*, **41**, 382, 2009.
76. “The Magnetic Field Structure and Particle Population of the Parsec-Scale Jet of 3C 279” (with D. C. Homan, M. L. Lister, H. D. Aller, & J. F. C. Wardle), *B. A. A. S.*, **41**, 477, 2009.
77. “An X-ray Spectral Analysis of the Nucleus of NGC 1052: What is the Nature of the Accretion Flow?” (with L. Brenneman, *et al.*), *B. A. A. S.*, **41**, 685, 2009.

78. “Circularly Polarized Radio-Band Emission from AGN” (with H. D. Aller), *B. A. A. S.*, **42**, 378, 2010.
79. “Centimeter Band Observations of Circular Polarization in Flaring Blazars from the Effelsberg and Michigan Programs” (with H. D. Aller, et al.), *B. A. A. S.*, **42**, 378, 2010.
80. “Multiple Gamma-ray Flares from Superluminal Knots in Blazars” (with A. P. Marscher, et al.), *B. A. A. S.*, **42**, 421, 2010.
81. “Multi-wavelength Spectral Analysis of the Blazar 3C 279” (with M. Joshi, et al.), *B. A. A. S.*, **42**, 421, 2010.
82. “Revisiting the Blazar Sequence” (with S. Thibadeau, et al.), *B. A. A. S.*, **42**, 420, 2010.

Invited Talks at Conferences and Workshops: 2002-2010

1. “Survey of Variability”, at *Radio Astronomy at the Fringe*, Green Bank, WV, 10-12 October 2002.
2. “Radioband Observations of Blazars”, at *202nd Meeting of the AAS*, Nashville, TN, 24-29 May 2003.
3. “Radio Band Observations of Blazar Variability”, at *Blazar Variability Workshop II: Entering the GLAST Era*, Florida International University, Miami, FL, 10-12 April 2005.
4. “Recent Results on Circular Polarization of Blazar Sources”, at *Challenges of Relativistic Jets*, June 25 - July 1, 2006, Cracow, Poland.
5. “The Role of Single Dish Monitoring Data in Understanding γ -ray Emission”, presented at *VLBI in the GLAST Era*, April 23-27, 2007, Green Belt, MD.
6. “Circular Polarization Variability at Centimeter band: the UMRAO Program”, presented at the Symposium in honor of Arno Witzel, MPIfR, Bonn, Germany, October 16-17, 2008.
7. “Probing the Physics of Gamma-Ray Blazars with Single-Dish Monitoring Data”, presented at the Workshop *Fermi Meets Jansky: AGN in Radio and Gamma Rays*, MPIfR, Bonn, Germany, June 21-23, 2010. (astro-ph 1007.0258)
8. “Radio Band Observations of Blazar Variability”, presented at *Multiwavelength Variability of Blazars*, Guangzhou, China, September 22-24, 2010.