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7 December 1987

Dear Paul,

Here is the revision to p.10 of my article for the "Active Galactic Nuclei" proceedings that I mentioned to you by 'phone the other day. I also learned that the reference I had been given (by one of the authors!) for #40 was incorrect, and have therefore made a change in the table of references on p.14 also.

I promise not to inflict any further changes on you! Good luck with rounding up the delinquent contributions - always the least pleasant aspect of being an editor.

Merry Christmas,

A.B.

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November 24, 1987

Prof. P. J. Wiita
Department of Physics and Astronomy
Georgia State University
University Plaza
Atlanta, GA 30303

Dear Paul,

I think I am for once making one of your deadlines!

Enclosed are 14 pages of paper text, plus one of discussion questions and answers, for the AGN Conference Proceedings. I have taken Springer at their word that if you use a typesetting program you do not have to use their paper. The dimensions of the typesetting area conform to their specifications, and the font is as black as black can be, so I hope this will be acceptable. What I cannot do is to match their European paper size. If this is a big problem, let me know and I will arrange to have a cut-and-paste done onto their paper !

I greatly enjoyed the meeting, and commend you and Dick Miller for the local arrangements.

I have talked with Jim Condon, our colloquium organizer, about having you up for a talk and visit sometime in the winter or early spring. I think people at both NRAO and U.Va. would be interested to hear more about your modeling of the luminosity function and giant sources. Let me know what will be suitable dates once you know your other plans for that part of the year.

I have two questions re the modeling. How well does your model fit the *changes* in the radio luminosity function with cosmic epoch? (I presume that is one of the observations you are fitting). I also wonder whether the clustering of the "giant" sources just above the break luminosity is a real effect, or just that the probability of detection in flux-limited surveys peaks at about this power also. In other words, there is a bias toward this luminosity regime for otherwise undifferentiated radio source types, just from the way volume sampling interacts with the true luminosity function and a flux density limit. (I don't know the answer to this, I'm just wondering ...)

With best wishes,

Alan Bridle

Bridle

FINAL MAILING

GEORGIA STATE UNIVERSITY CONFERENCE ON ACTIVE GALACTIC NUCLEI

WEDNESDAY, OCTOBER 28, 1987 THROUGH FRIDAY, OCTOBER 30, 1987

Preliminary Program: A complete preliminary program is enclosed. We have a full schedule, with sessions opening at 8:30 or 8:45am. The Registration Desk will be open 7:45am-5:00pm on Wednesday, 8:00am-1:00pm on Thursday and 8:00am-10:00am on Friday. (N.B.: The last two days' programs had to be switched from the previous version you may have seen.)

Location: The entire meeting will be held in the Auditorium of the Urban Life Center on the Campus of Georgia State University, which is located at the corner of Decatur and Piedmont Avenues in downtown Atlanta. The Auditorium has entrances on the second and third floors, and the Registration Desk is on the second floor. Please report there to confirm your registration and pick up the abstract booklet and other materials. The meeting hotel is the Westin Peachtree Plaza, located nearby at Peachtree St. and International Blvd. (See enclosed maps).

If you are the first author of a paper:

You have been allocated an oral presentation of 60 minutes, of which 10 minutes should be reserved for questions. If you would rather give a poster paper or could make do with less time please let us know as soon as possible as there are other people who desire to give oral presentations but were assigned to poster sessions. You are requested to provide a camera-ready version of your paper of no more than 14 pages in length either at the meeting or before 1 December 1987. Paper and instructions for preparation will be available at the conference or ahead of time upon request.

You have been assigned to a poster session on _____. The space available will roughly 1 m². Your poster should be put up between 8:00 and 8:45 and taken down between 5:30 and 6:00. The posters will be in the rear of the auditorium near the coffee service. You are requested to provide a camera-ready version of your paper of no more than three pages in length either at the meeting or before 1 December 1987. Paper and instructions for preparation will be available at the conference or ahead of time upon request. If you feel that you absolutely must give an oral presentation notify us immediately and we will try to accommodate you; however, in view of the tight schedule, it is unlikely that we will be able to do so unless someone with an oral paper gives up time. Do note that a period for discussion of poster papers has been set aside at the end of each day.

(If the first author is not presenting the paper please be sure to notify the presenting author of the above.)

Audio/Visual Facilities: Both overhead and 35 mm slide projectors will be available. If you need anything more sophisticated (movie projector, VCR and TV, etc.) notify us before October 15th so that we can make arrangements to accommodate your presentation.

Publication: Springer-Verlag has agreed to bring out the proceedings by March or April if we can stick to schedule. Because of the low (we hope you agree) registration fee, we cannot provide free copies of the proceedings to all participants (only to invited speakers). However we will arrange for a discount price for participants; details will be announced at the meeting.

GEORGIA STATE UNIVERSITY
CONFERENCE ON
ACTIVE GALACTIC NUCLEI

OCTOBER 28-30, 1987

Scientific Organizing Committee

Mitchell C. Begelman
Alan H. Bridle
H. Richard Miller
Richard Mushotzky
Donald E. Osterbrock
Maarten Schmidt
Wayne Stein
Paul J. Wiita

Sponsored by:

National Science Foundation
Georgia State University

WELCOME!

On behalf of the Scientific Organizing Committee we would like to welcome you to Georgia State University and the Conference on Active Galactic Nuclei.

This booklet contains a list of participants followed by a final program and copies of all abstracts received by 13 October.

We have a full schedule, with sessions opening at 8:30 or 8:45am. We must stick to the schedule very closely and the Chairs of each session are asked to remind speakers 5 minutes before their allotted time (after setting aside time for questions) is up. If speakers continue into the time set aside for questions, fewer questions can be asked or answered. Also, because of a communications snafu, the Auditorium has been booked for a teleconference starting at 5:30 pm on Wednesday. Therefore it is imperative that we be out of the room by 5:15 that day.

Location: The entire meeting will be held in the Auditorium of the Urban Life Center. The Auditorium has entrances on the second and third floors, and the Registration Desk is on the second floor. The posters will be mounted on easels at the rear of the lower level of the auditorium, and the coffee will also be served at that location. The Registration Desk will be open 7:45am-5:00pm on Wednesday, 8:00am-1:00pm on Thursday and 8:00am-10:00am on Friday.

Publication: Springer-Verlag has agreed to bring out the proceedings by March or April 1988 if we can stick to schedule. Because of the relatively low registration fee, we cannot provide free copies of the proceedings to participants other than invited speakers. However, we will arrange for a discount price for all participants; details will be announced orally during the meeting. If you want your contribution to be included in the proceedings, be sure to send a camera-ready version to us before the deadline of 1 December 1987. Poster papers are limited to three (3) pages and oral contributions to the number of pages indicated in the final mailing you received earlier (essentially 14 pp. for 60 minute presentations, 7 for 30 minutes, 4 for 15 minutes and 3 for 10 minutes). While invited speakers and anyone else who asked for them have already received special paper and instructions, all other contributors will receive them during or after the session in which they make their presentation. Follow the directions extremely closely, as this will make for a neater volume and quicker publication. The editors will have to return the typed manuscript to the author if there is significant deviation from the Springer-Verlag format. The title of the book will be "Active Galactic Nuclei: Proceedings of the Georgia State University Conference", eds. H.R. Miller and P.J. Wiita.

We plan to include questions and answers concerning oral presentations in the published proceedings. We will have a sheet passed to each person who asks a question after a particular paper and we request that you write down your name and question and then either hand it to the speaker or to one of us, and we will relay it to the speaker. Each speaker will be responsible for typing the questions and her/his answers on a separate sheet(s) following the references for her/his paper in the following format (which will not count against the maximum page limit):

QUESTIONS:

I.M. Querier:

Why do you make the assumption of a power-law decline in density in your argument?

P.F. Speaker:

I have excellent reasons for everything I do, and in this case the evidence from radio maps is extremely convincing.

(leave a blank line between different questions)

N.T. Interrogator:

Could you explain where your equation (2) comes from?

P.F. Speaker:

Certainly, although the derivation is a bit lengthy. It begins by noting that . . .

Poster Papers: Please mount your poster on one side of the easel before the morning session begins and remove it after the evening session is over. The easels will be numbered from 1 to 20; we have tried to place related papers near each other, so look for the appropriate easel.

Oral Papers: Both overhead and 35 mm slide projectors are available. Please give your slides to the projectionist before the beginning of the session during which you will speak.

Meals: There are cafeterias in both the Urban Life and Student Center buildings, as well as in the nearby State Office Building. A map of nearby fast food and other restaurants is in your folder. The Urban Life Cafeteria is on the third floor of this building and the B&D Cafeteria is in the adjacent Student Center. The **Where** magazine included in your folder has lists of restaurants and other events in Atlanta.

Conference Dinner on Thursday: Your registration fee includes one ticket to the Dinner on October 29th at the Texas Restaurant, which is essentially half way between the Westin Peachtree Plaza and GSU. Extra tickets for companions will be available up to 2 pm on Wednesday at \$10 per person.

Transportation: Vans will run between the hotel and the conference site each morning and evening. Sign-up sheets will be posted for rides to the airport. If you would like to share a taxi ride to the airport please contact other people who will be leaving at approximately the same time as you. Note that you should allow at least 50 minutes to get to the airport during rush hour and at least 15 minutes to get to your gate from the entrance to the airport.

The people on duty at the Registration Desk as well as anyone wearing a host name tag will try their best to help you if you have any questions. We trust that your stay will be enjoyable and that you will find the meeting productive.

Dick Miller & Paul Wiita

LIST OF PARTICIPANTS

Margo F. Aller	U. Michigan
Robert Antonucci	Space Telescope Science Institute
William C. Baguolo	Georgia State University
Thomas J. Balonek	Colgate University
David L. Band	IGPP/Lawrence Livermore National Laboratory
Mitchell C. Begelman	JILA/U. Colorado
Gregory Benford	U. California, Irvine
Luc Binette	Canadian Inst. Theoretical Astrophysics
John A. Biretta	Center for Astrophysics
David Blank	U. Virginia
John M. Blondin	U. Chicago & NASA/GSFC
Alan H. Bridle	NRAO/Charlottesville
Jack O. Burns	U. New Mexico
Gene G. Byrd	U. Alabama
Saul Caganoff	Mt. Stromlo & Siding Spring Obs. & NRAO/VLA
John K. Cannizzo	McMaster University
Michael T. Carini	Georgia State University
Timothy E. Carone	U. Arizona
Adeline Caulet	Yerkes Obs. & U. Alabama
Gerald Cecil	Institute for Advanced Study
Chong-An Chang	Canadian Inst. Theoretical Astrophysics
Fuhua Cheng	Lick Obs.
Marshall H. Cohen	Caltech
William Cooke	U. Florida
D. Michael Crenshaw	Computer Science Corp. & IUE/GSFC
Oved Dahari	Space Telescope Science Institute
Darren L. DePoy	NOAO
Charles D. Derner	Lawrence Livermore National Laboratory
Michael De Robertis	York University
Richard Elston	Steward Obs.
Charles R. Evans	Caltech
C. Martin Gaskell	U. Michigan
Jean W. Goad	NOAO/ADP
Bob Goodrich	Lick Obs.
Philip E. Hardee	U. Alabama
Charlene A. Heisler	Yale University
Sethanne Howard	Georgia State University
Philip A. Hughes	U. Michigan
Judith Irwin	U. Toronto
Demosthenes Kazanas	NASA/GSFC
William C. Keel	U. Alabama
Mario Klaric	U. Alabama
Anuradha Koratkar	SUNY/Stony Brook
Theodore Koupelis	U. Rochester
Julian Krolik	Johns Hopkins University
Robert J. Leacock	U. Florida
H.M. Lee	Canadian Inst. Theoretical Astrophysics
Gordon MacAlpine	U. Michigan
Matthew A. Malkan	UCLA
Herman Marshall	UC, Berkeley
Obradovic Marzan	U. Alabama
Joseph M. Mazzarella	U. Michigan
Stacy S. McGaugh	U. Michigan
Ben Q. McGimsey	Georgia State University
Fulvio Melia	U. Chicago & Northwestern U.

H. Richard Miller	Georgia State University
Joseph S. Miller	Lick Obs.
Brian W. Murphy	Indiana University
Richard Mushotzky	NASA/Goddard Space Flight Center
Donald E. Osterbrock	Lick Obs.
A. Pedlar	Jodrell Bank/U. Manchester
Bradley M. Peterson	Ohio State University
Richard W. Pogge	Lick Obs.
Gerald D. Quinlan	Cornell University
Gail A. Reichert	Computer Science Corp.
Stephen P. Reynolds	North Carolina State University
William Romanishin	Arizona State University
Alex Rosen	Georgia State University
Edward Rosenblatt	UCSC/UCLA
Alberto C. Sadun	Agnes Scott College
John L. Saffo	U. South Carolina
D.J. Saikia	Jodrell Bank/U. Manchester
Maarten Schmidt	Caltech
Richard A. Shaw	Lick Obs.
Noriaki Shibasaki	Stanford University
Isaac Sholsman	JILA/ U. Colorado
Javad Siah	Villanova University
Alex G. Smith	U. Florida
Paul S. Smith	Steward Obs.
Noam Soker	U. Virginia
Wayne A. Stein	U. Minnesota
Jack W. Sulentic	U. Alabama
Martin E. Sulkanen	U. New Mexico & Cornell University
Wei-Hsin Sun	UCLA
Yukio Tomozawa	U. Michigan
Kenneth C. Turner	Innovative Systems Corp.
C. Megan Urry	MIT/Space Telescope Science Institute
J. Patricia Vader	Yale University
Mauri Valtonen	U. Helsinki & U. Turku
Wil van Breugel	UC, Berkeley
Sylvain Veilleux	Lick Obs.
Amri Wandel	Stanford University
Martin J. Ward	U. Washington
James R. Webb	U. Florida
Bjorn Westin	Georgia State University
Tor Westin	Georgia State University
Ray Weymann	Mt. Wilson & Las Campanas Obs.
Mark Whittle	U. Cambridge & U. Virginia
Paul J. Wiita	Georgia State University
John W. Wilson	Georgia State University
Diana M. Worrall	Center for Astrophysics
James P. Wright	National Science Foundation
Adam Wysota	SUNY/Stony Brook
Andrzej Zdziarski	Space Telescope Science Institute

FINAL PROGRAM

WEDNESDAY, OCTOBER 28

Shuttle van from hotel to Urban Life Center 7:30-8:45

Registration in Lobby of Urban Life Center 7:45-5:00

William Suttles Opening Remarks 8:30-8:45
Acting President & Provost

Morning Sessions: Alan H. Bridle, Chair

DON D.E. Osterbrock Emission Line Spectra and the 8:45-9:45 ✓
Nature of AGN

BRAD B.M. Peterson Emission-Line Region Structure from 9:45-10:00
Variability Studies

ADAM A. Wysota Reddening of Narrow Line 10:00-10:10
& C.M. Gaskell Regions

Coffee/Poster Papers 10:10-10:30

JULIAN J. Krolik Theoretical Interpretation of 10:30-11:30 10:35
Emission Line Data from AGNs

MIKE M.M. DeRobertis Line Profiles & Kinematics 11:30-11:45 11:40
& R.A. Shaw of the Narrow Line Region

MARTIN C.M. Gaskell Double Peaked BL Profiles--Edge on 11:45-12:00 11:55
Accretion Disks or Double Quasar Nuclei?

Lunch 12:00-12:45

Poster Papers 12:45-1:15

Afternoon Sessions: Donald E. Osterbrock, Chair

M.J. Valtonen et al. OJ 287 as A Binary System 1:15-1:45

J.S. Miller Spectropolarimetry and the 1:45-2:45
Structure of AGNs & QSOs

B. Goodrich Spectropolarimetry of "Narrow 2:45-2:55
Line Seyfert 1s"

Coffee/Posters 2:55-3:15

R. Weymann Mass Ejecting Quasars & the 3:15-4:15
Environment of Radio Loud QSRs

G. Benford Electrodynamic Model of Galactic Center 4:15-4:30

Discussion of Poster Papers 4:30-5:00

Shuttle van to hotel 5:15-5:45

WEDNESDAY POSTER PAPERS

1. T.J. Balonek Broadband Visual-IR Photopolarimetry of Quasars:
Intense Polarization Activity in 3C279
2. P.S. Smith & R. Elston Evidence for Thermal Emission Components
in Highly Polarized Quasars
3. T.E. Carone & M.A. Malkan Voyager Far UV Observations of Markarian 509
4. T.E. Carone Long Slit CCD Observations of Active & Normal
Galaxies
5. R.A. Shaw & M. DeRobertis Long-Slit Spectroscopy of Starburst Galaxies
6. J.W. Goad & J.S. Gallagher Long-Slit Echelle Spectrograms of Seyfert Nuclei
7. G.A. Reichert & B.M. Peterson UV and Optical Spectroscopy of NGC 5548
8. G. Cecil Imaging Spectrophotometry of Narrow-Line Regions
9. D.M. Crenshaw UV & Optical Spectra of Broad Line Radio Galaxies
10. S. Caganoff, *et al.* An Optical & Radio Survey of Southern Radio
Galaxies
11. D.J. Saikia, *et al.* A Radio & Optical Study of Sersic-Pastoriza Galaxies
12. S. Veilleux High Resolution Study of NGC 4151
13. J.P. Vader The Infrared-Luminous Quasar IRAS 00275-2859
14. C.A. Heisler IRAS Observations of AGNs
15. D.L. DePoy IR Spectroscopy of NGC 1068
16. O. Dahari & M. DeRobertis Dust & Emission-Line Asymmetries in Active Nuclei
17. R.W. Pogge The Circumnuclear Regions of Nearby
Non-Interacting Seyferts
18. G.D. Quinlan & S.L. Shapiro The Collapse of Dense Star Clusters to Supermassive
Black Holes: Binaries & Gravitational Radiation
19. J.K. Cannizzo & H.M. Lee Structure & Evolution of an Accretion Disk formed
by a Tidally Disrupted Star near a Black Hole
20. M.E. Sulkanen, R.V.E. Lovelace & J.C.L. Wang Self-Collimated Electromagnetic Jets
from Magnetized Accretion Disks
21. C.R. Evans & J.F. Hawley Magnetohydrodynamic Simulations of Magnetized Jets

THURSDAY, OCTOBER 29

Shuttle van from hotel to Urban Life Center		7:45-8:45
Registration: Lobby of Urban Life Center		8:00-1:00
<i>Morning Sessions:</i>	Wayne Stein, Chair	
M. Schmidt	Space Distribution & the Luminosity Function of Quasars	8:45-9:45
M. Cohen	Small Scale Radio Structure	9:45-10:45
<i>Coffee/Posters</i>		10:45-11:05
D.J. Saikia	Compact Steep Spectrum Radio Sources	11:05-11:35
A.H. Bridle	Large Scale Radio Structure	11:35-12:35
<i>Lunch</i>		12:35-1:30
<i>Posters</i>		1:30-2:00
<i>Afternoon Sessions:</i>	Maarten Schmidt, Chair	
P.J. Wiita & Gopal-Krishna	Evolution of Radio Jets in Galactic Halos and the Intergalactic Medium	2:00-3:00
J.O. Burns	AGNs in Clusters of Galaxies & the Bootes Void	3:00-3:30
W. van Breugel & P. McCarthy	Extended Ionized Gas in Powerful Radio Galaxies	3:30-4:00
<i>Coffee/Posters</i>		4:00-4:20
P.E. Hardee, F.N. Owen & T.J. Cornwell	Implications of VLA Observations of the M87 Jet for Small Scale Jet Structures & AGN	4:20-4:35
P.A. Hughes, et al.	The Internal Conditions of Parsec Scale Relativistic Jets	4:35-4:50
<i>Discussion of Poster Papers</i>		4:50-5:20
Shuttle van to hotel		5:30-6:00
<i>Social Hour</i>	<i>Texas Restaurant</i>	6:30-7:15
<i>Dinner</i>	<i>Texas Restaurant</i>	7:15-9:00

THURSDAY POSTER PAPERS

1. M.F. Aller & H.D. Aller The Cm-Wavelength Fluxes & Linear
Polarization of BL Lac Objects
2. W.G. Bagnoulo High Resolution Images of the Core of M87

FRIDAY, OCTOBER 30

Shuttle van to Urban Life Center		7:45-8:45
Registration		8:00-10:00
<i>Morning Sessions: Richard Mushotzky, Chair</i>		
W. Stein	Observations & Interpretation of Multi-Frequency Continuum of AGN & QSOs	8:45-9:45
H.R. Miller	Optical Variability of Blazars	9:45-10:25
<i>Coffee/Posters</i>		10:25-10:45
A.G. Smith R.J. Leacock & J.R. Webb	Long-Term Optical Monitoring of a Large Sample of AGNs	10:45-11:15
M.C. Begelman	AGN Continuum: Theory	11:15-12:15
<i>Lunch</i>		12:15-1:15
Posters		1:15-1:45
<i>Afternoon Sessions: Mitch Begelman, Chair</i>		
R. Mushotzky	X-ray Properties of AGN	1:45-2:45
D.M. Worrall	Clues to the X-ray Emission Mechanisms in Flat Radio Spectrum AGNs	2:45-3:15
<i>Coffee/Posters</i>		3:15-3:35
C.M. Urry	X-ray Timing	3:35-4:35
M.J. Ward	X-ray Observations of IRAS Selected AGN	4:35-5:05
W.H. Sun & M.A. Malkan	Fitting Multi-Wavelength Continua of AGN w/ Improved Accretion Disk Models Considering Inclination Effects	5:05-5:15
Discussion of Poster Papers		5:15-5:45
Shuttle van to hotel		5:30-6:00

FRIDAY POSTER PAPERS

1. C.D. Dermer Model for the Continuum Emission of AGN
2. D. Band
& M. Malkan Synthesis of Accretion Disk Non-Thermal Source Models for AGN
3. L. Binette Constraints on the Soft X-ray Continuum of AGN Derived from Photoionization Models

FRIDAY POSTER PAPERS, continued

4. L. Binette The Effect of Pulsed Variations of the Ionizing Continuum of the NLR
5. R. Antonucci A New Continuum Component in Radio Quiet Quasars: Implications for IR through Soft X-ray Emission Mechanisms
& R. Barvainis
6. I. Sholsman A Leakage of UHE Photons from AGNs: Production of X & Gamma Ray Halos Within 10-100 kpc
& M. Sikora
7. I. Sholsman Effects of Self-Gravity in AGNs
& M.C. Begelman
8. A. Wandel Quasar Masses and Accretion Rates from Accretion Disk Modelling of their Optical-UV Spectrum
& V. Petrosian
9. Y. Tomozawa Mass and Length Scale of Black Holes in Quasars & AGN
10. M.T. Carini The Long Term Optical Variability of
H.R. Miller PKS 2201+044
& J.W. Wilson
11. B.Q. McGimsey A Photometric Investigation of the Optical
et al. Variability of Mrk 501
12. J.W. Wilson, The Optical Variability of Arakalian 120:
H.R. Miller 1977-1987
& M.T. Carini
13. J.R. Webb Observations of the 1987 Outburst
& A.G. Smith of AO 0235+164
14. A.C. Sadun A Complete Spectral Analysis of the Flare of 3C 273
15. E. Rosenblatt Broad Emission Line Variability of 20 Seyfert Galaxies
& M.A. Malkan
16. G. MacAlpine A Preliminary Examination of Redshift & Luminosity
et al. Characteristics for APM Survey Quasars
17. D. Blank Evolution Sequence of Seyfert Galaxies
& N. Soker
18. J.M. Blondin Radiation Dynamics & Pair Creation in
& A. Konigl AGN Accretion Shocks
19. G.G. Byrd IR Emission & Tidal Interactions of Spiral Galaxies