



RADIO ASTRONOMY LABORATORY

BERKELEY, CALIFORNIA 94720

oct. 15

Dear co-author,

Enclosed the latest & last version of 3C 277.3, as it will be published. It includes final revisions of the $M_{H\alpha}$, refinements on thermal press, & other small but necessary corrections to be consistent.

Cheers,

W. I.

H.B. Berkeley preprints will be made using a mailing list which combines the ST, NRAO & Berkeley lists.

NATIONAL RADIO ASTRONOMY OBSERVATORY
Edgemont Road, Charlottesville
Virginia 22901

16 October 1984

Dr. W.J.M. van Breugel,
Radio Astronomy Laboratory,
University of California,
Berkeley,
CA 94720

Dear Wil,

Here are the items you requested when we talked yesterday:

1. The NRAO institutional preprint distribution list.
2. The list of people to whom I have sent our Annual Reviews article -- my "default jet set".
3. Instructions for remote access to the CV digital data switch. Once into CVAX:: one can DecNet to the VLA, where the nodes are AIPS:: and VAX3::.

I look forward to receiving the final typescript of the Comegg. As I mentioned on the 'phone, I was quite happy with the revisions and am glad that Jean was too.

I also enclose two papers I wrote up for the Green Bank workshop. I am waiting for the last contributions to come in, and should have the Proceedings to the printers in the near future. Your own copy should be in your hands before Christmas !

Best wishes,



RADIO ASTRONOMY LABORATORY

BERKELEY, CALIFORNIA 94720

April 30 or so, 1984.

Dear Alan,

Enclosed Figure 8(c). The Radio Lab. here has also a preprint service & I probably should use it. I will check their mailinglist first however. Of course we should wait until the paper has been accepted. I think about coming East Fall this year, to visit Maryland. Maybe I could visit Charlottesville also. After all, I've never been there. But by that time you & others may have left already for N.M.

Good luck with your UKBA politics.

Cheers,
W.C.L.

P.S. If you have some objects ones a while for which you need optic. data... I might do something at Lick (3m) during gaps in my own programs.

NATIONAL RADIO ASTRONOMY OBSERVATORY
Edgemont Road, Charlottesville
Virginia 22901

25 April 1984

Dr. W.J.M. van Breugel,
Radio Astronomy Laboratory,
University of California,
Berkeley,
CA 94720

Dear Wil,

Thank you for the copy of the Comegg as it was laid.

I found some corrections to the references:

- 1) "Biretta et al 1984" is actually Biretta et al 1983,
Ap.J.Letts., 274, L27.
- 2) "Bridle et al 1981" is actually Bridle, A.H., Fomalont, E.B.,
Palimaka, J.J. and Willis, A.G. (1981), Ap.J., 248, 299 (not the paper
quoted on p.42, which concerns 3C293).
- 3) "Bridle and Perley 1984" is Ann.Rev., 22, 319.
- 4) "Eilek et al 1984" is Ap.J., 278, 37.

These corrections can be made when the paper is accepted (or
resubmitted in response to referee's comments).

I have alerted the NRAO to the submission, so they can authorize a
share of the page charges. The standard rules will support 1/5 of the
charges. You should send a copy of the page charge authorization form
to Ellen Bouton, Librarian, NRAO, Edgemont Road, Charlottesville, VA
22901 as soon as you receive the original. NRAO will also order 50
reprints; please send Ellen a copy of the reprint order form as soon
as you receive it. If you wish, the paper can be included in the NRAO
preprint series. I suggest that we do this after it is accepted; it
would go to about 50 institutional libraries in the U.S. and abroad.
Let me know if you want to take advantage of this. I will otherwise
distribute redcovers privately only.

I hope you are enjoying Berkeley. I am spending a lot of time
back in Canada these days, trying to bring four Canadian 32-m antennas
into collaboration with the VLBA.

Best wishes,



RADIO ASTRONOMY LABORATORY

BERKELEY, CALIFORNIA 94720

Neenah Bond
Easter, 1984.

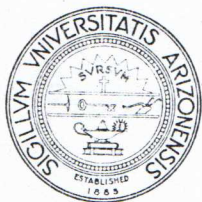
Dear Alan,

Our Coma A-egg has now finally been laid. Let now the referee sit on it for a while.

I have incorporated every one's comments + my own changed look at things. This revised version was ready nov. last year and it took the secretaries in Maryland ~5 months to type it. Since it took so long I decided to submit the paper (AP-J, main journal). Still, your comments would be appreciated and would be incorporated together with those of the referee, and others.

I'm glad that VBA headquarters will be in New Mexico, and that NRAO is looking for a new director.

Cheers,
Wil.



THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

STEWART OBSERVATORY

sept. 16 1983

Dear George, Harvey and Alan,

Enclosed is a semi-final draft (3rd version) on Coma A. Please give your detailed comments as soon as possible (remarks like: 'this ~~is~~ or that should be said differently, are not accepted. You must come up with right phrases.). There are still minor things missing. You can skip over trivialities.

I would like to have the final version ready before I go to Chili (end of oct.) so please let me have your comments before ~ 20 oct.

Cheers

Wal.

George: I need contour values & smoothing resolutions of some panels in figure 4.
Harvey: The first column of Table 3 needs some info

Coma-A galaxy [3C277.3]

Harvey Burcher

Optical jet survey of radio jets \rightarrow many non-detections or marginal detections.

Blue detections easier than red because of night-sky background (which is much brighter ~~in~~ in red than blue, requiring much longer integration times).

He has observed:

3C219 (marginal det.)

0326+396 not looked

1159+583

1155+266

1200+519

3C341 v. marginal!

1321+318 nothing there

4 merke observations of

Coma-A knots "bright one" on our radio knot

continuum polarized like radio pos'n.

faint emission near northern hot spot

Bright knot appears to have KIII region around it. ^{em. line} [4507] ^{III}
is much bluer than galaxy.

Thermal gas during redepolarization?

Symmetric velocity gradient ~~along~~ ^{along} radio jet \pm 250-300 knts

Marginal IPC detection, will be observed HRI now.

Usually want λ_{4363} when λ_{5007} detected $\rightarrow T_e$.
But: Don't get much λ_{4363} , so can say $T < 20,000 \text{ K}$
Don't know n_e until T better determined

$EM \approx \text{few } 100$.

"Overionized" $T < 30 - 35,000 \text{ K}$.

Know T is low for standard shock-ionizing models
Ionized by the nonthermal particles?