

MAX-PLANCK-INSTITUT FÜR PHYSIK UND ASTROPHYSIK  
INSTITUT FÜR ASTROPHYSIK

Karl-Schwarzschild-Strasse 1 · 8046 Garching bei München · Telefon · 089 · 32990

13 August 1984

Dear Alan,

Thank you for sending your preprint on Extragalactic Radio Jets. van Breugel mentioned to me that he had some "old" VLA maps on 0844+31. Perhaps a more intensive investigation as you suggest, however, would be very valuable. I am asking Wil for his best radio map of 0844+31 but if you know of a better one I would appreciate borrowing about it because I am trying to get together a review article of my own about active objects in the vicinity of jets.

On that subject I found your Review on Radio Jets Extremely interesting. First of all the distribution of red shifts between the two regions  $7^h < R.A. < 17^h$  and  $19^h < R.A. < 5^h$  is much different. Do you know of any reason why objects of different red shifts should be preferentially observed in different directions in the sky?

I see some potentially interesting associations with 1004+14, 1216+06 and 0336-35 but I suppose I will have to wait for those unpublished maps to appear before I check further.

Incidentally I wonder if you know whether 0924+30 (Nature 258, p584) has any jet aspects to go with those compact radio sources which appear to be aligned with it?

Best regards,

Chip Culp

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28 July 1984

Dear Chip,

I enclose a preprint of our Ann. Rev. article,  
as you requested.

Unfortunately, it does not answer your question  
re 0844 + 319. I don't seem to have the letter  
reference in my files. The only comparison I knew  
of was that in Fig. 1 of Grueff and Vigotti (1974),  
A.A., 35, 491. I am considering a VLA proposal  
for 0844 + 319 however, and if I come across the  
reference you mentioned while putting that proposal  
together, I'll certainly send it on.

With best wishes,

St. B.

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17 July 1984

Dear Alan,

Kellerman told me you were writing an Annual Reviews Article on Radio Jets. It has not yet arrived in Germany where I am spending a year. Could you send me a preprint of it?

I am interested in the whole subject but I am particularly interested in the radio galaxy 0844+31 (4C 31.32). There is a reference which I have lost and am trying to recover. It was after von Breugel's papers in 1977 and 1980 I believe. It compared the exact position measurements of the quasar nearby with the hot spot in the north radio lobe. I believe Maarten Schmidt's name was on the paper. Do you know that reference? It contained a radio map and some discussion.

If you knew the reference and could communicate it to me I would be extremely grateful. Of course it would be best if it was in your review article.

Thanks you.

Chip

HALTON ARP