

From: abridle (Alan Bridle)
To: aroy@atnf.csiro.au
Subject: FRII imaging
Date: Mon, 9 May 1994 10:38:24 -0400

Frazer Owen has forwarded to me an enquiry you sent him about FRII RG/QSR imaging at the VLA. There's a published paper by Fernini et al. AJ 105, 1690 (1993) that partially meets your description. It 5 RGs only. The QSR part of that project has just been accepted for the Sept 1994 AJ, and there is a (very large) preprint newly available. I can send you a copy of that if you're interested but it won't help your short-term request.

Also, the published paper does not get into morphological differences between RGs and QSRs. I'm not sure what ref you had in mind for that. Paddy Leahy has addressed the problem in a review he gave in the Zensus/Pearson "Parsec-Scale Jets" meeting (CUP 1989, p.174) and there are indeed some interesting systematic differences but I'm not aware of a full published discussion, certainly not by me!

Alan B.

From: AROY@atnf.CSIRO.AU
To: abridle@polaris.cv.nrao.edu
Subject: Re: FRII imaging
Date: Tue, 10 May 1994 18:53:15 +1000

Hi Alan,

many thanks for your prompt help and useful references. Alas I've not yet found the particular paper, but the papers suggested certainly come close and are useful to know about. I'll be interested to see the QSR preprint from NRAO when it arrives (it will arrive in the library here in due course and since my immediate need is over there's no need to send one specially).

The discussion highlighted an interesting problem with FR-II - QSR unification. The lack of counter-jets in radio galaxies is hard to explain by orientation unification and beaming, since you'd certainly expect to see counter jets with about equal brightness in some RGs according to these schemes.

Thanks for your help.

Regards,
Alan

From: abridle (Alan Bridle)
To: AROY@atnf.CSIRO.AU
Subject: Re: FRII imaging
Date: Tue, 10 May 1994 10:38:37 -0400

Indeed the lack of counterjets in RG's is strange considering that we do find counterjet candidates in QSRs imaged with comparable sensitivity and dynamic range. It is as if the main jets have read about the models and know to be less prominent in the RG's, but the counterjets march to a different tune. We are making this point in the QSR paper!

Cheers,

Alan B.