

From: abridle Wed Aug 28 14:44:55 1991
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To: pjackson
Subject: A.H.Bridle science for Program Plan
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Bridle will continue work on the statistical and individual properties of extragalactic radio jets, and of their correlations with other observable features of extended radio sources.

The statistics of both jet and counterjet prominence in "classical double" sources, and their relation to asymmetries in the lobes and to the prominence of other compact structures, will be used to test "unified models" of radio galaxies and quasars. New VLA observations are planned to increase the quality and quantity of the database that is available for such work.

VLA, MERLIN and WSRT imaging of a complete sample of nearby 3CR radio sources will be assembled into a computer-readable database, in a joint project with workers at the NRAO and NFRA. This complete "3CR Atlas" will be distributed to individuals and institutes, to assist research into the properties of nearby strong extragalactic sources.

Studies of the internal structure of "partial jets" in extragalactic sources will be used to help discriminate between steady-state and intermittent-flow models of these structures. To this end, the knots in the partial jet of 3C219 will be studied at high resolution with the VLA. The VLA will also be used to search for evidence in 3C219 of the possible radio bow-shock predicted by the intermittent-flow model.

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Sorry this is a bit late!