

HOW DO RADIO QUASARS (FOR $Z < 2$) EVOLVE ?

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We've chosen a sample of quasars which fill
The z-luminosity plane.
We knew nothing further about them until
The data we went to obtain.

5 GigaHertz maps from the VLA show
Each QSO's power and size:
From bright central points all their structure they grow
And then the core fades out and dies.

The sizes they grow to get smaller with z
At least up to z 1.4
And then they grow bigger again unless we
Make q_0 come down by some more.

Ejection of lobes seems to alternate sides
With β near 0.3.
The question of beaming or lensing still hides
Its answer: the Big Mystery!

We've other results to report on as well:
With details exciting and new,
Too numerous for this short abstract to tell...
But soon in an *A. J.* near you!

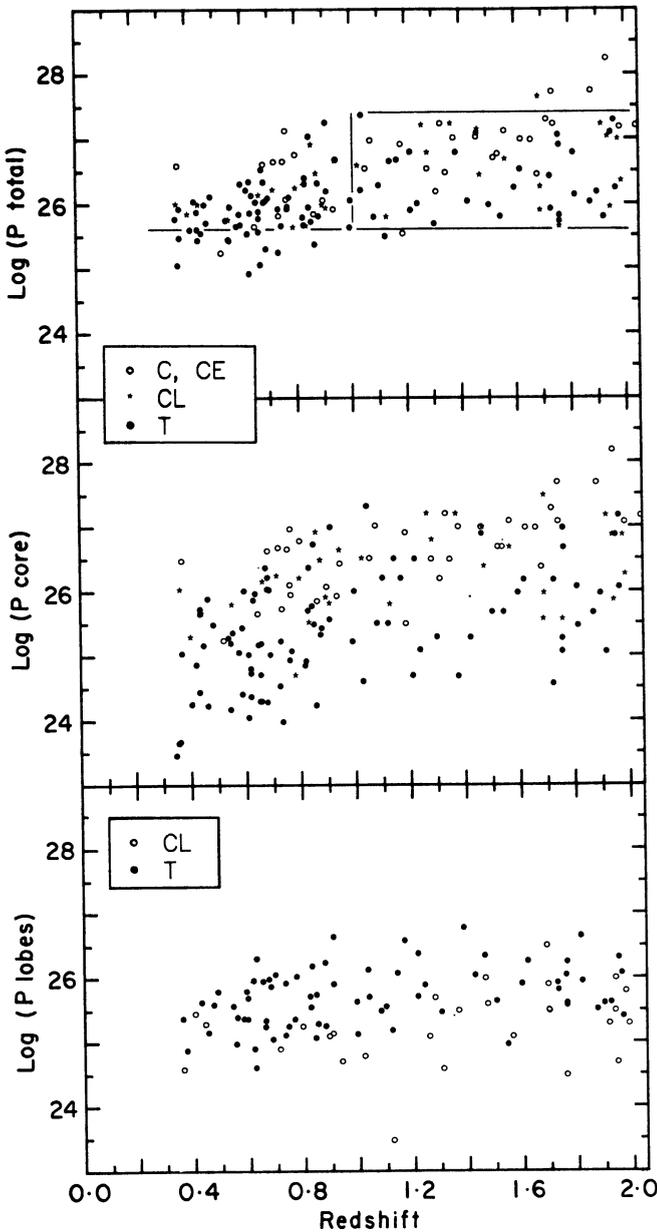


Figure 1. Distribution of quasars from redshift 0.35 to 2.0 in redshift/luminosity plane, for total, core, and lobe luminosities. Symbols refer to Core, Core-Lobe, and Triple morphologies. Lines in top panel indicate the well-sampled newly studied region of the plane. Note the stratification of C, CL and T sources in luminosity at all redshifts. In the lowest panel, lobe luminosities are combined for T sources.