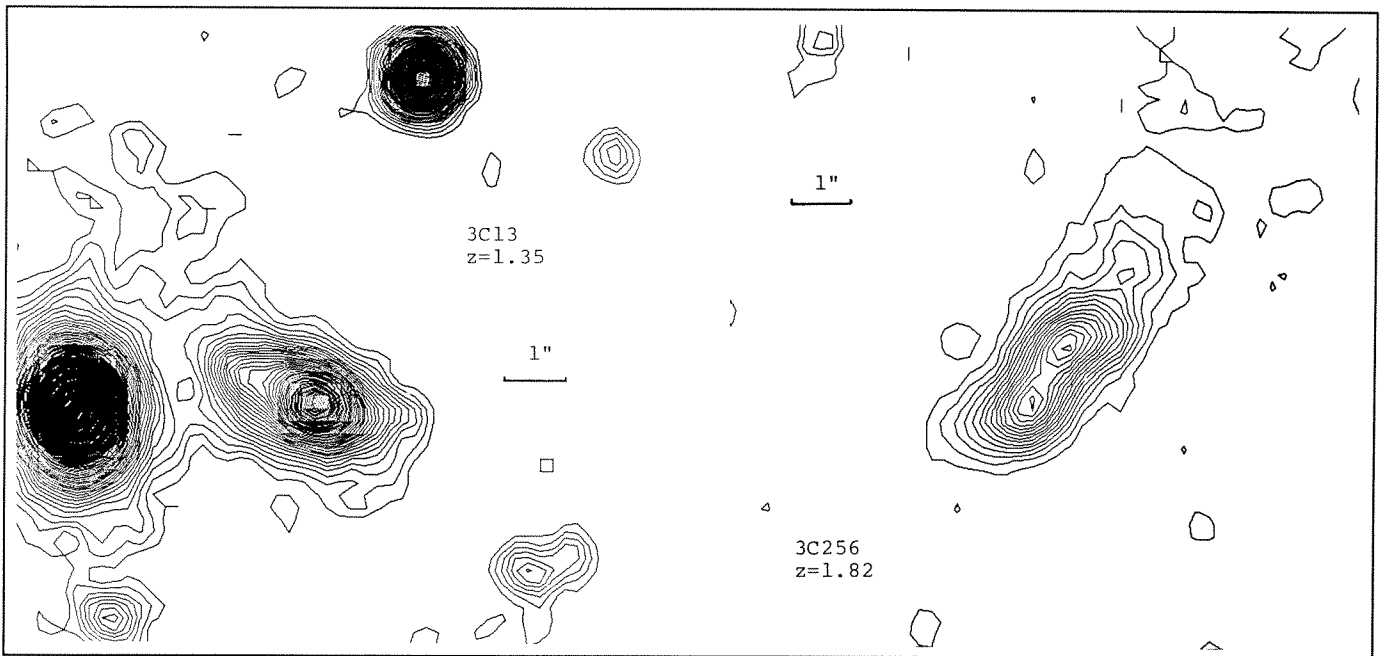


CCD Imaging of Faint Galaxies

Figure 13: This figure illustrates CCD data taken with the RCA2 CCD at CFHT in the CCD J bandpass. The CCD J filter allows the CCD to mimic photographic J photometry. The frames are a composite of many exposures shifted randomly by moving the telescope in small steps. This image is processed with the FOCAS software to obtain very high quality flat fielding, and dark and bias correction. Galaxies are identified and measured to isophotal levels of 29 J mag/square arcsecond. Notice that the CFHT data is much better in resolution than has been previously obtained using this technique. The sampling is 0.4 arcsec/pixel. The importance of the better resolution is that the galaxy counts are improved when images that appeared to be irregularly shaped blobs are resolved into distinct objects.

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Imagerie de Radio-Galaxies Distantes (jusqu'à $z=1,82$)

Figure 14: Imagerie dans un filtre R de deux radio galaxies de très grands redshifts, CCD RCA2, F/4. Grâce à l'excellent seeing (0.6–0.7 secondes d'arc FWHM) la structure multiple de ces deux galaxies géantes mais faibles, $m_v=22$, a été mise en évidence. L'origine physique de cette structure n'est pas établie, mais pourrait être un effet d'amplification gravitationnelle similaire au cas de 3C324 (Bulletin no. 15).

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