



Figure 1. Images of A1689 from 30 GHz interferometric data (*contours*) and X-ray surface brightness data from the *XMM-Newton* satellite (*grey-scale*, Andersson & Madejski 2004). The contours are in units of the 2σ noise level in each image, generated using the standard IMAGR task in the AIPS data reduction package. The estimated rms noise levels in each image are $4.8 \text{ mJy beam}^{-1}$ (CBI1), $5.8 \text{ mJy beam}^{-1}$ (CBI2), $3.2 \text{ mJy beam}^{-1}$ (SZA), $0.3 \text{ mJy beam}^{-1}$ (BIMA), and $0.09 \text{ mJy beam}^{-1}$ (OVRO). A gaussian spatial filter is applied to the data so as to down-weight visibilities on angular scales much smaller than 100 arcseconds. The FWHM of the CLEAN beam, representing the resolution of the image, is shown in the bottom left-hand corner. Each image is constructed so as to be twice the FWHM of the interferometer field-of-view.