A 325 MHz Radio Survey of M31

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Using the VLA A-array, we imaged 405 radio sources in the field of M31 with a resolution 6” and a sensitivity of 0.6 mJy/beam.

◆ 38 are X-ray sources from ROSAT, Chandra, and XMM observations of the area.

We have identified in this field
• SNR and PWNe candidates (see poster), several with X-ray counterparts
• FRI, FRII radio galaxies, and radio emission from star-forming galaxies with X-ray counterparts
• USS, CSS, and GPS sources, some with X-ray counterparts.
• BL-Lac and Galaxy Merger with X-ray counterparts
• And a large number of anomalous sources, inc. very steep spectrum sources, extremely variable sources, and source with bizarre morphologies.