

What Is The Relation Between Jet Flow Dynamics And Energy Radiated From Large Scale Radio Jets ?

- *The image shows a ROSAT hard X-ray band (0.5 – 2.9 KeV) overlaid with 1384 MHz (20 cm) contours in ESO IG022-N/S, two merging galaxies in Abell S0102.*
- *An X-ray luminosity of $8.6 \times 10^{42} \text{ erg s}^{-1}$ has been estimated for the total emission, suggesting that the emission is due to hot gas lying in the potential well of the cluster.*
- *Because of insufficient energy transfer from the relativistic electrons that produce synchrotron radiation to the thermal gas in the cluster, the best model for the X-ray emission may be thermal bremsstrahlung from gas in the ICM, and this emission appears to confine the jet from the southern galaxy.*

