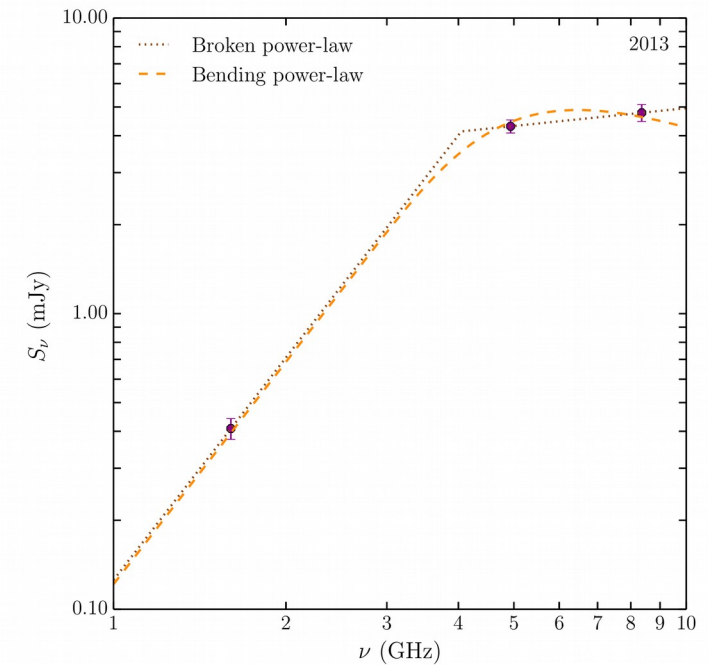
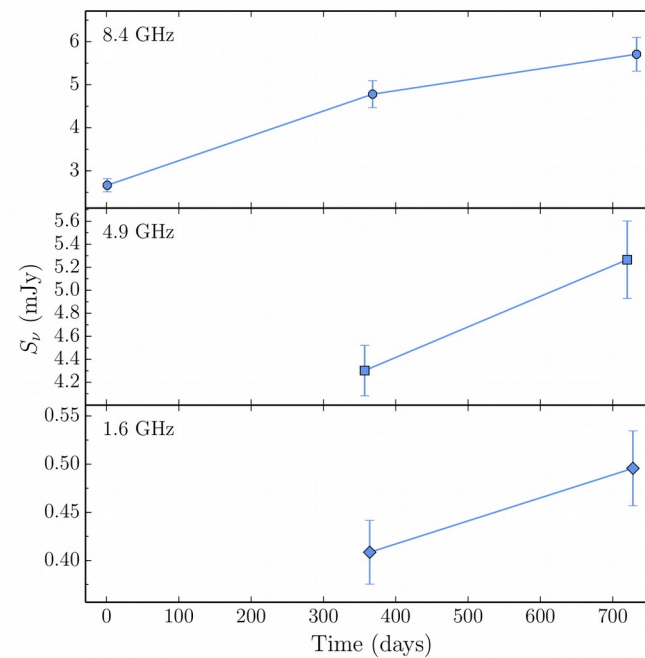
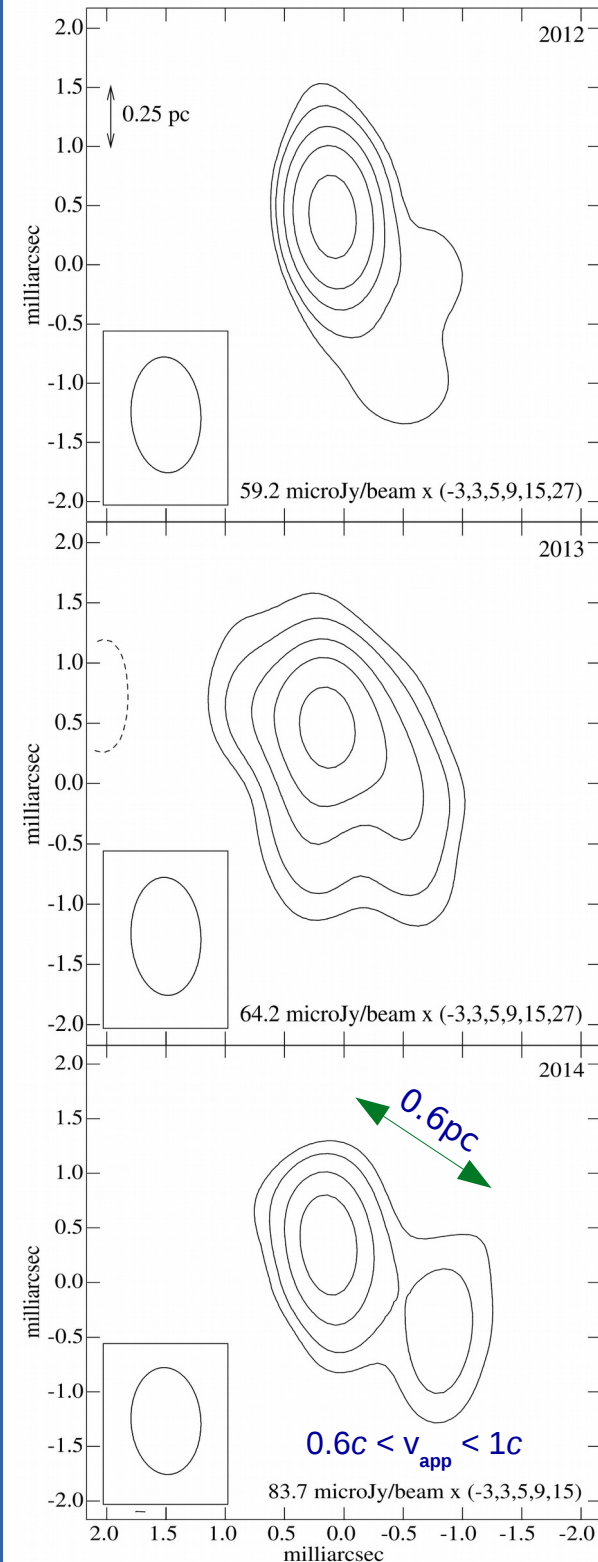


AGN activity in the advanced merger IC883: one of the nearest + the youngest and least luminous Gigahertz Peaked Spectrum source

Romero-Cañizales, Alberdi, Arévalo, Ricci, Pérez-Torres, Conway + SUNBIRD and LIRGI teams.

IC883 facts:

- ✓ It is a luminous infrared galaxy ($L_{\text{IR}} = 4.7 \times 10^{11} L_{\odot}$) in an advanced merger stage at 100 Mpc
- ✓ Classified as a starburst-AGN composite (Yuan+10), its energetics is clearly dominated by the starburst at all wavelengths (e.g., Asmus+15), but,
- ✓ Radio monitoring with the EVN for supernova search, has shown unequivocal evidence for AGN activity



We found:

- ✓ A subparsec-scale jet with subluminal proper motion
- ✓ Flux density increases with time \Rightarrow jet is present at all frequencies
- ✓ A core dominates the nuclear emission ($L_{8.4\text{GHz}} \sim 10^{21} \text{ W/Hz}$)
- ✓ The core has a spectral energy distribution consistent with a GPS source (highly absorbed at low frequencies, and a turnover at a few GHz) \Rightarrow the youngest and least luminous GPS source!

Is the low-luminosity, young end of the GPS source distribution hiding in luminous IR advance mergers? \Rightarrow Important for radio galaxy evolution!

CRC+16 in prep.