



LOFAR

Polish contribution to LOFAR

Katarzyna Otmianowska-Mazur

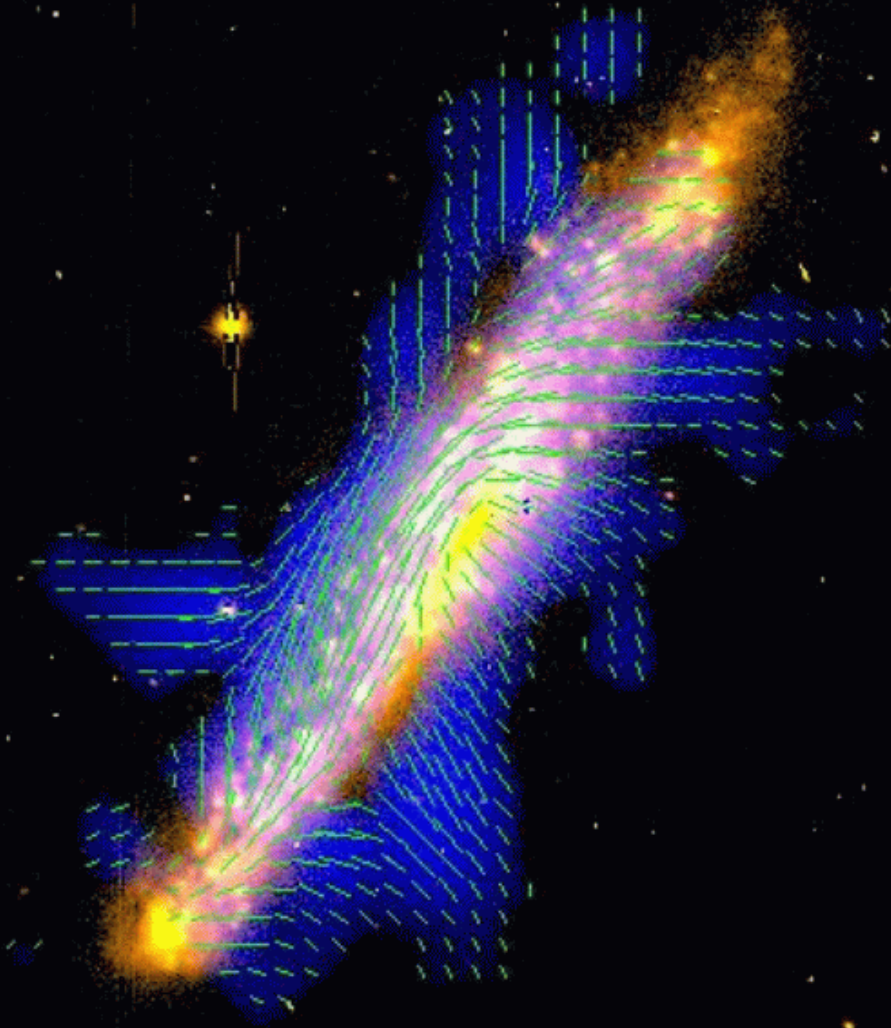
Marian Soida

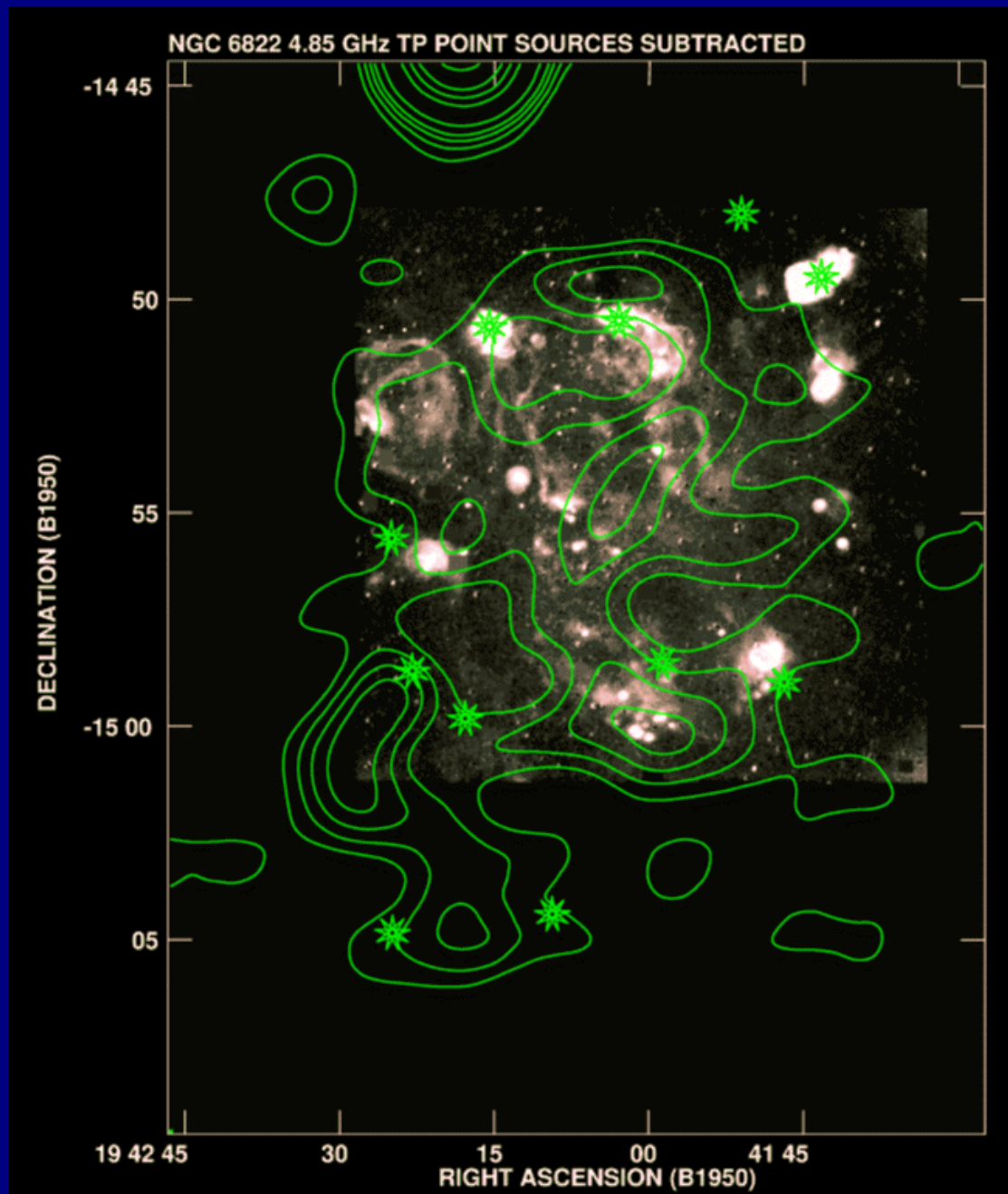


LOFAR

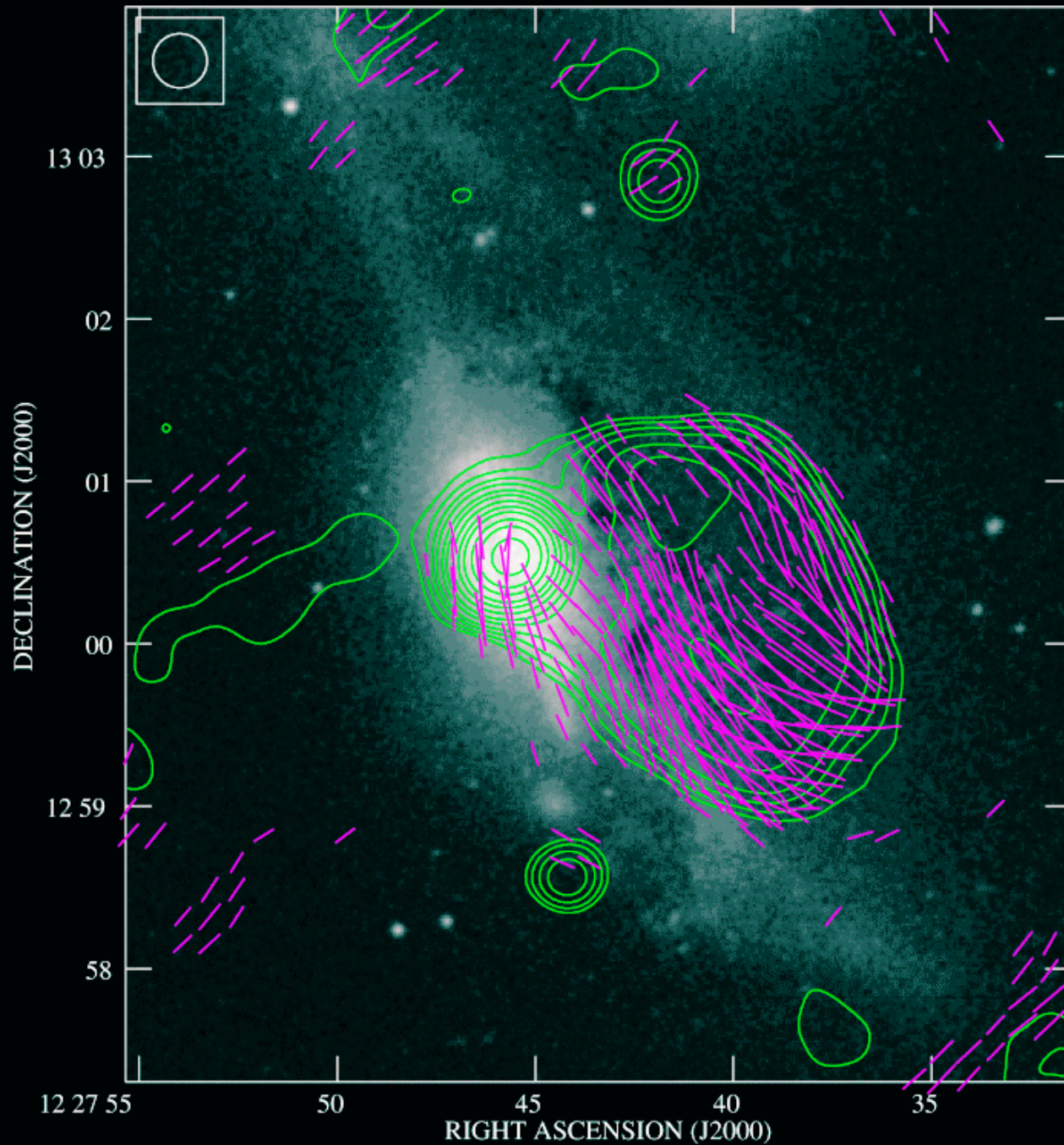
- Uniwersytet Jagielloński, Kraków
- Uniwersytet im. Mikołaja Kopernika, Toruń
- Centrum Badań Kosmicznych PAN, Warszawa
- Uniwersytet Szczeciński, Szczecin
- Uniwersytet Zielonogórski, Zielona Góra
- *PIONIER*

NGC 5775
(Tuellmann, Soida,
Dettmar, Urbanik
et al. 2000)

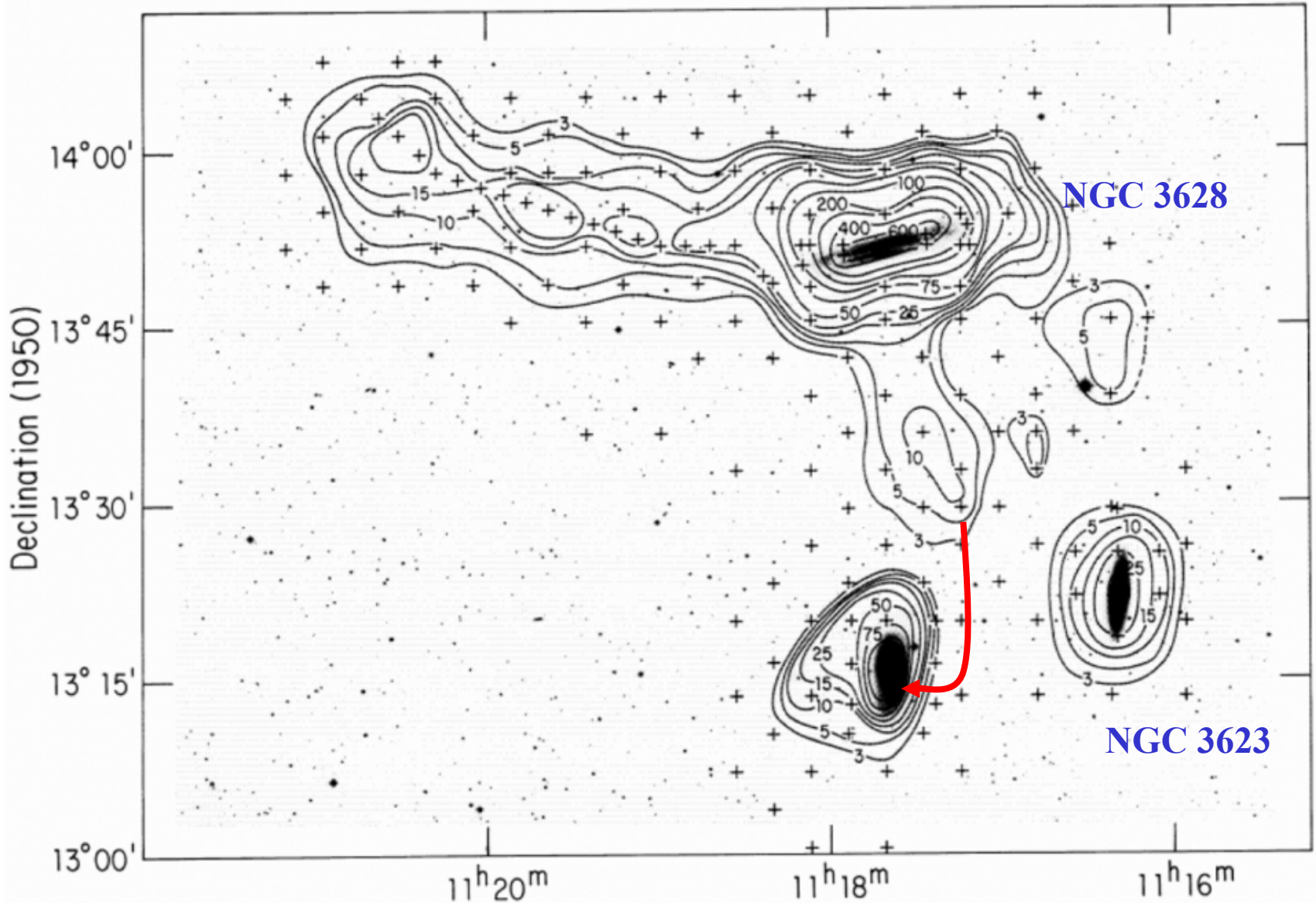




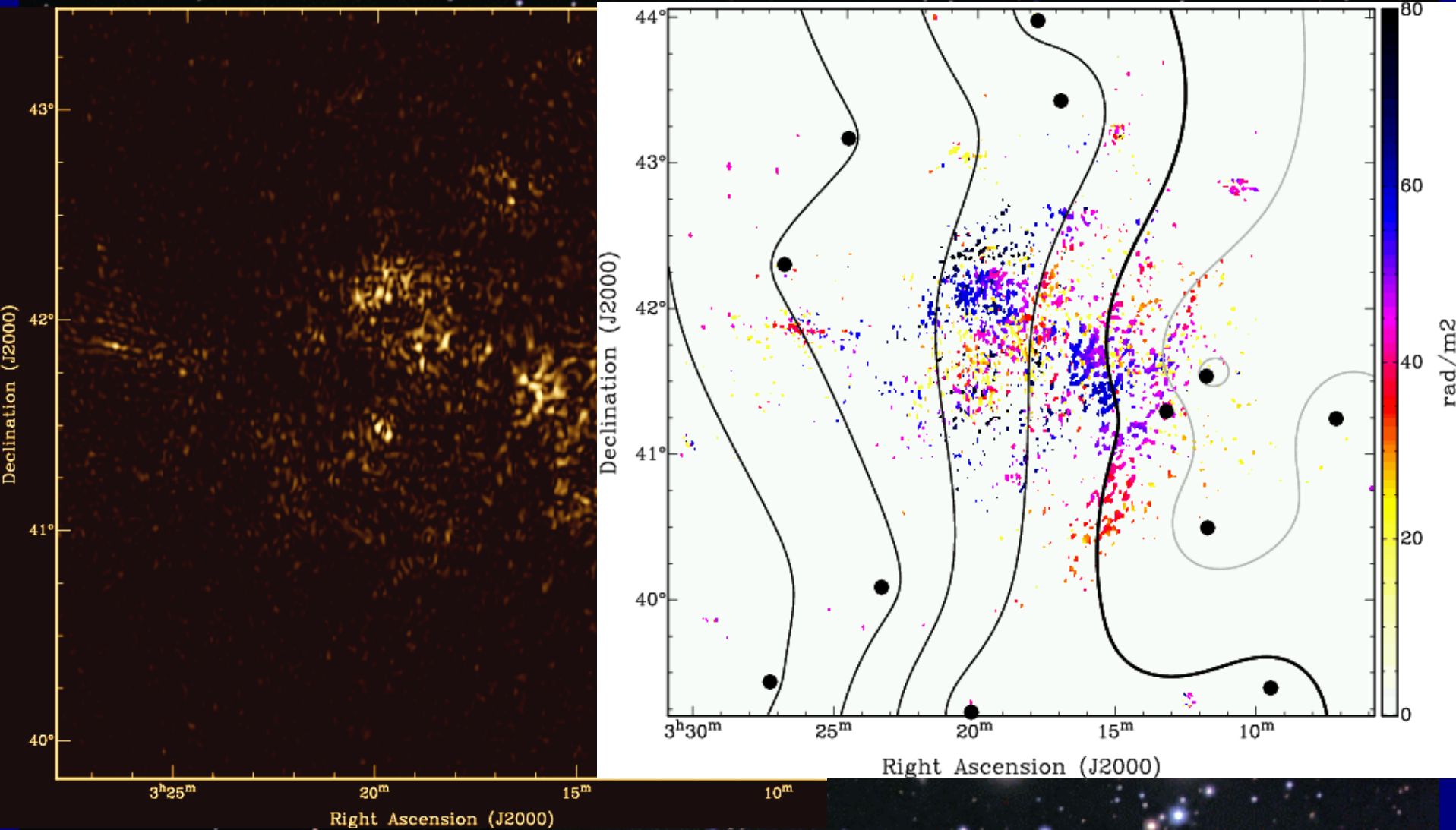
**Chyży et al.
2003**

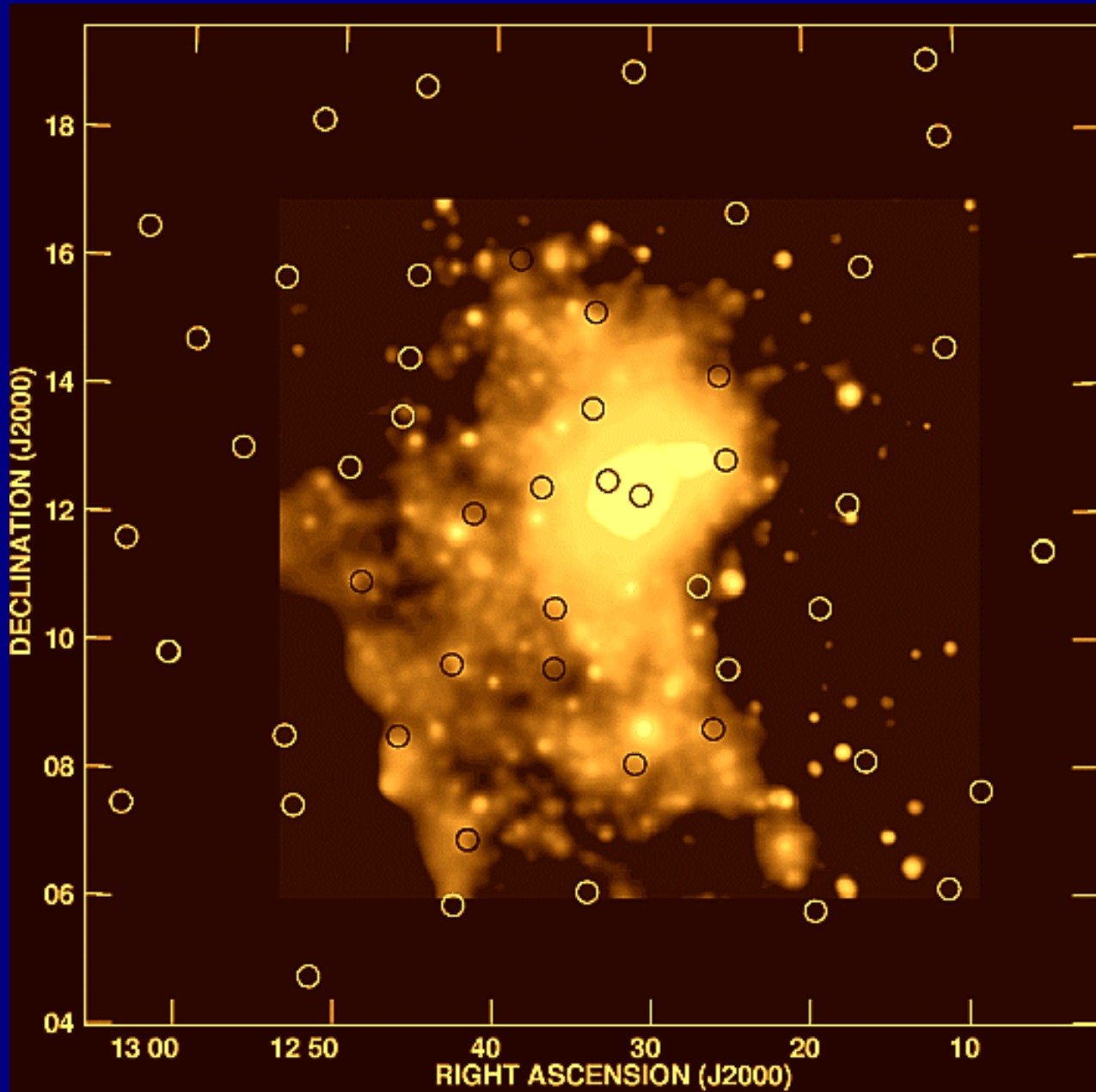


**Vollmer + the
whole Kraków
group**



Perseus Cluster WSRT 315 - 360 MHz Brentjens & de Bruyn 2005





Virgo in X-rays
(Boehringer 1994)

VLA RM project
(in progress,
Knapik et al.)

Kraków radio continuum field of interest

LSB galaxies, stability of the ISM in LSB, magnetic fields in LS, radio-bright parts of galaxies (outer halo, HI disks of BCG)	<i>TP and pol. emission, RM of background sources for large, nearby objects, RM synthesis for more distant objects</i>
Tails, outflows, old outflows from interacting/merging spirals	<i>Sensitive search for a weak (polarized?) emission</i>
Systematic searches of intergalactic emission in groups and clusters of galaxies	<i>Sensitive search for a weak (polarized?) emission</i>
The magnetic field structure in clusters and superclusters	<i>TP and pol. emission, RM of background sources for large, nearby objects, RM synthesis for more distant objects</i>
Radio spectra: thermal and nonthermal fraction in high-z starburst galaxies (rel. importance of magnetic fields, their role in SF, stability of the ISM)	<i>Multifrequency flux density measurements of distant galaxies (HDF? High-z ULIRG?)</i>
Giant double radio sources at high z, steep spectrum envelopes of giant double radio sources	<i>Multifrequency total power and polarization mapping of giant radio sources at large redshifts</i>