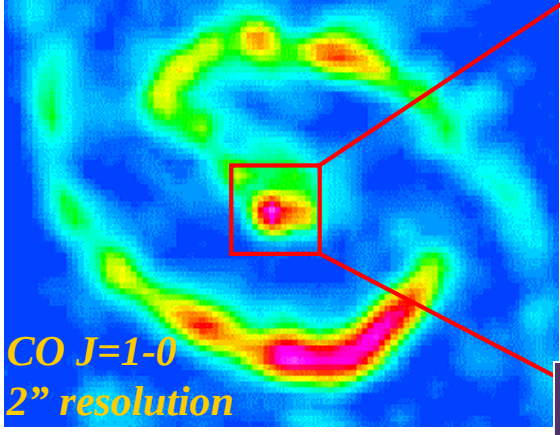
PdBI Observations

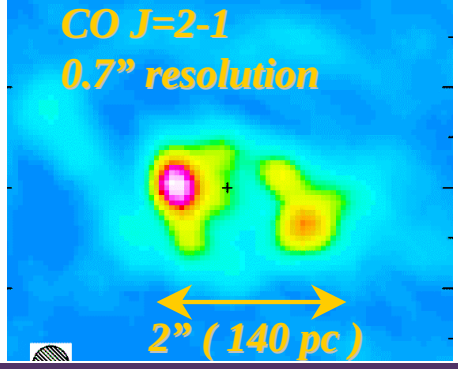
FRONT

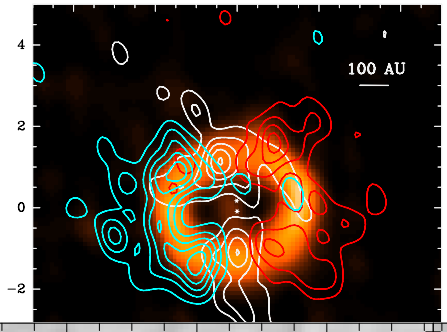
- **TT Cyg:** integrated area map of the CO J=2-1 emission in the surrounding envelope of the cool red giant star TTCyg. From Olofsson et al., 2000, A&A 353, 583. Courtesy of Dr. R.Lucas.

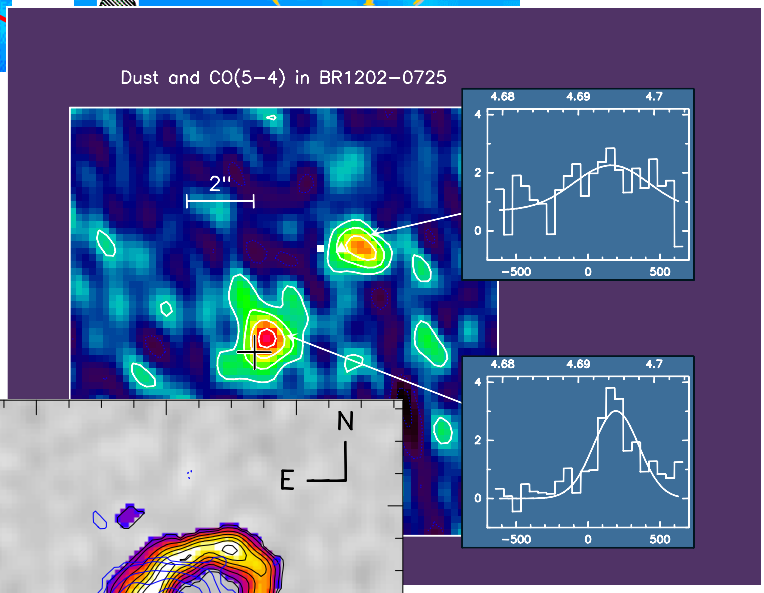
BACK - from top to bottom

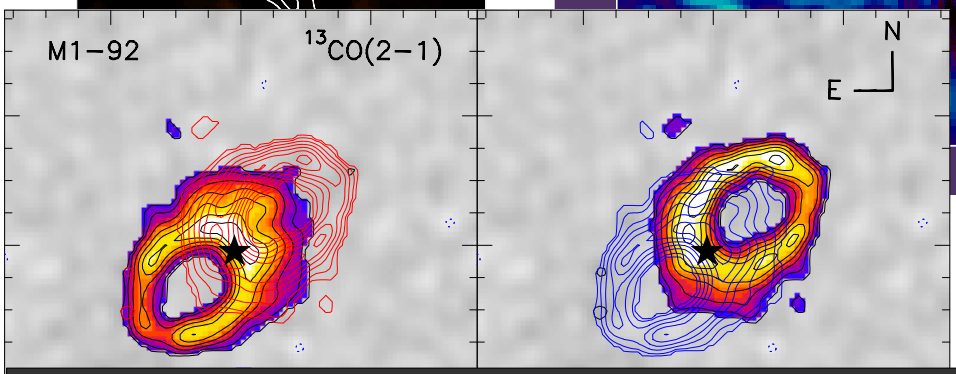
- **NGC1068:** integrated area map of CO J=1–0 emission in the starburst galaxy NGC1068 at low ($2''$) and high ($0.7''$) resolution. From Schinnerer et al., 2000, ApJ 533, 850. Courtesy of Dr. L.Tacconi.
- **LEFT, GG Tau:** $\lambda = 1.3$ mm image in false color of the dust ring surrounding the binary TTauri star GG Tau (which appears as white stars in the center). Three channels of the associated ^{13}CO J=2–1 emission have been superimposed (contours). From Guilloteau et al., 1998, A&A, 348, 57. Courtesy of Dr. A.Dutrey.
- **RIGHT, BR1202-0725:** Dust emission in the quasar BR1202-0725 at $z = 4.69$ which corresponds to 10 % of the age of the universe. CO J=5–4 spectra are also shown. From Omont et al., 1996, Nat.382,428. Courtesy of Dr. S. Guilloteau.
- **M1-92:** ^{13}CO(2-1) high-resolution maps (0.9") obtained towards the proto-planetary nebula M1-92, Minkowski's footprint. Blue-shifted emission at -13 km/s from the star's systemic velocity (lefthand) and red-shifted emission at $+13$ km/s (righthand) trace the presence of a huge molecular envelope with a bipolar double-shell like morphology which surrounds the central star (asterisk). The FOV is $15''$. From Bujarrabal, Alcolea, Neri 1998, ApJ, 504, 915. Courtesy of Dr. R.Neri.
- **M82:** Continuum at λ 3.4 mm from the center of the nearby galaxy M82. The continuum is dominated by free-free emission and traces the HII regions. Observations from P. Schilke & N. Brouillet. Courtesy of Drs N.Brouillet and P.Schilke.
- **HH211:** CO J=2–1 (white contours) and λ 1.3 mm continuum (red contours) emission in the HH211 molecular outflow, observed with the Plateau de Bure interferometer (Gueth & Guilloteau 1999, A&A, 343, 571). The underlying false-color image shows the H_2 2.12μm line emission observed with the Calar Alto 3.5-m telescope (McCaughrean, et al., 1994, ApJ, 436, L189). Courtesy of Drs F.Gueth and M.Mc Caughrean.

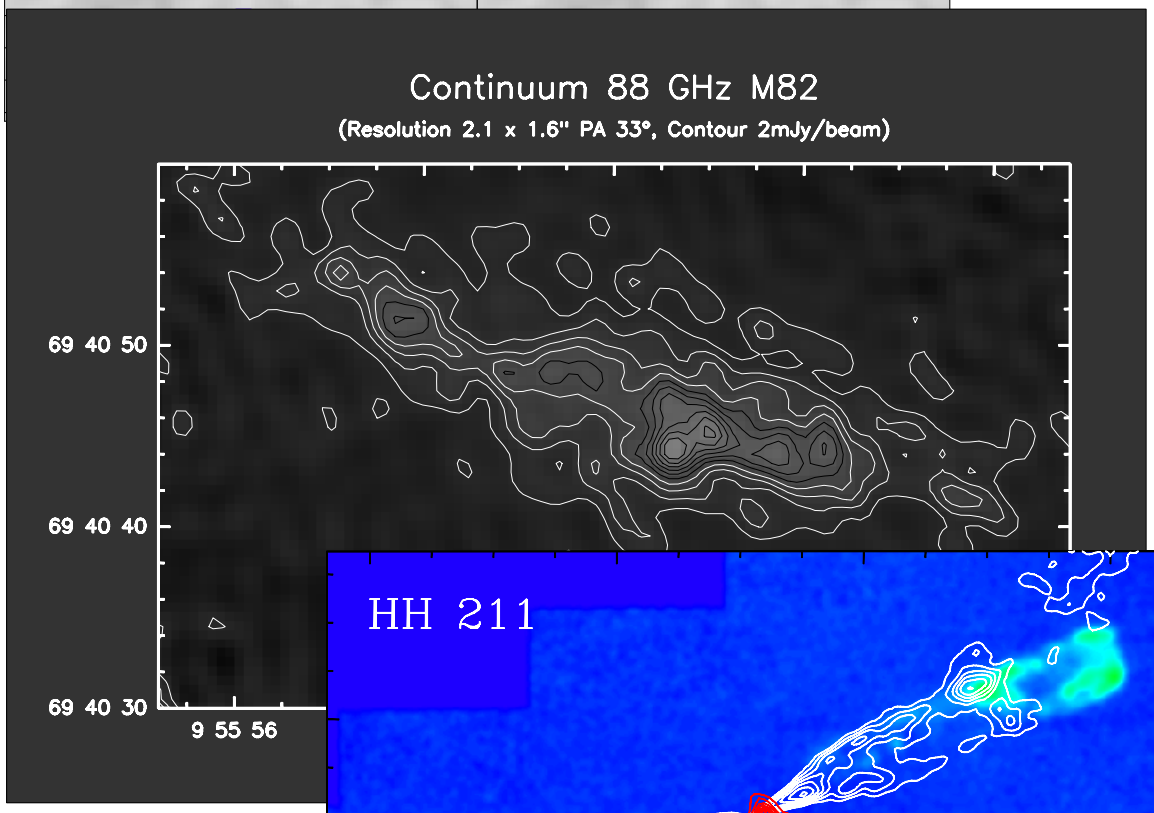

CO J=1-0
2” resolution

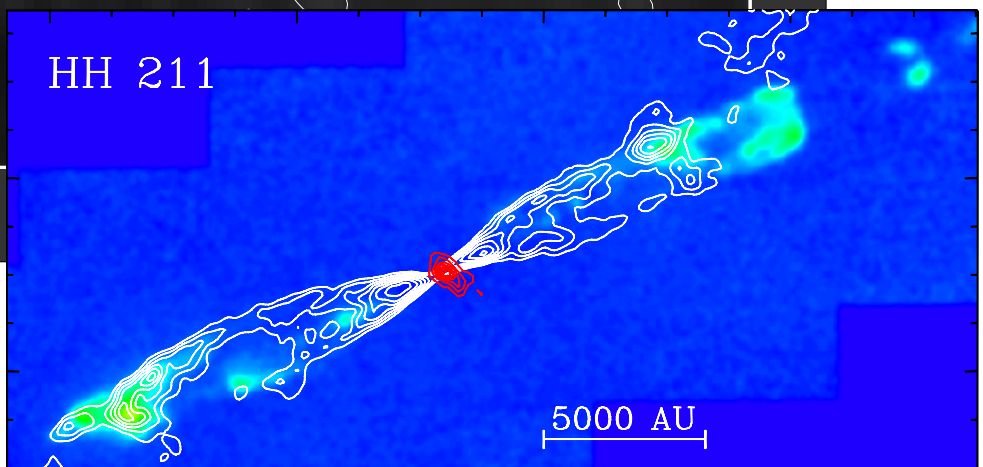

CO J=2-1
0.7” resolution
2” (140 pc)


100 AU


Dust and CO(5−4) in BR1202−0725
2"


M1−92
13CO(2−1)
N
E


Continuum 88 GHz M82
(Resolution 2.1 x 1.6" PA 33°, Contour 2mJy/beam)
69 40 50
69 40 40
69 40 30
9 55 56


HH 211
5000 AU