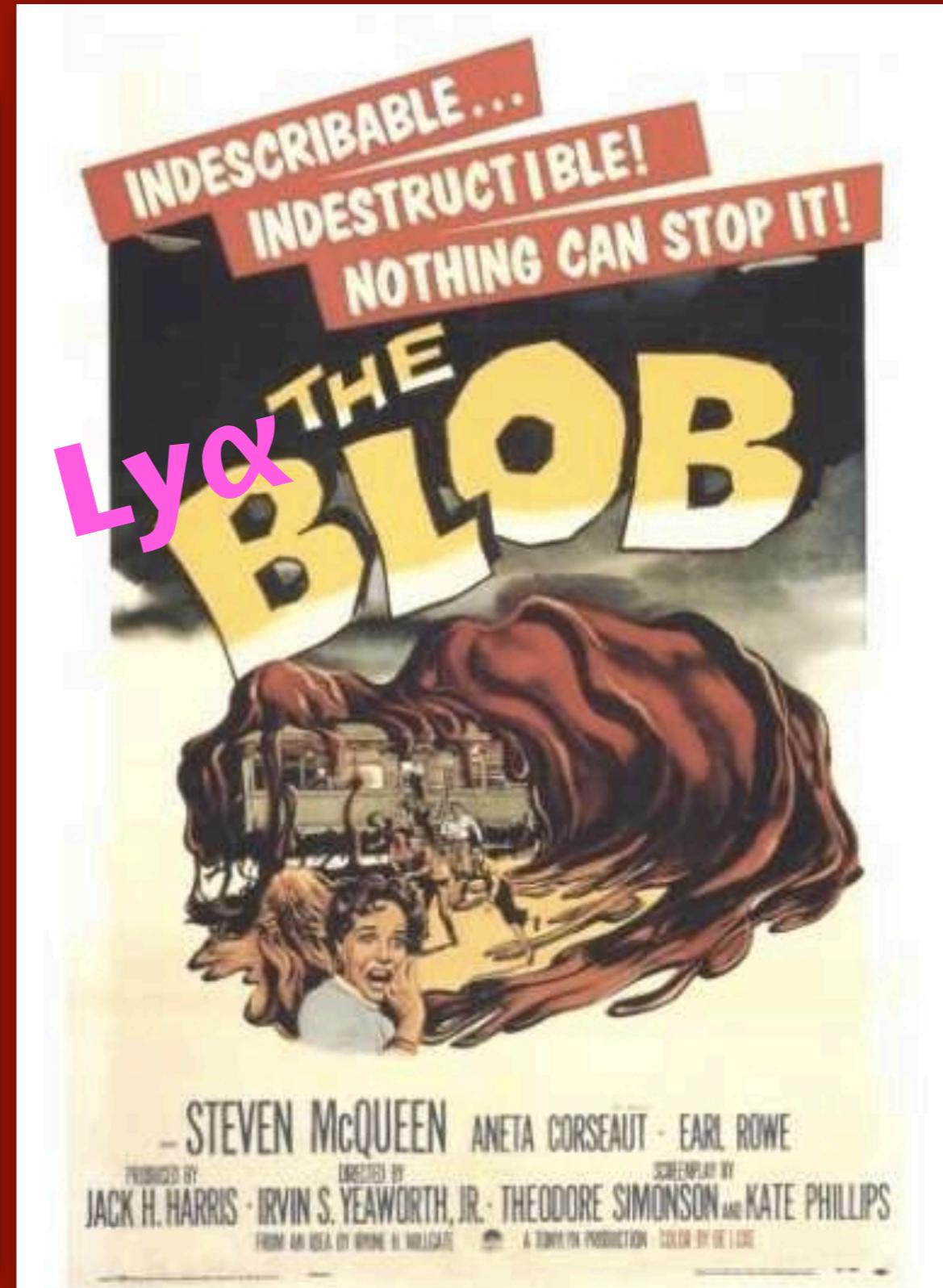
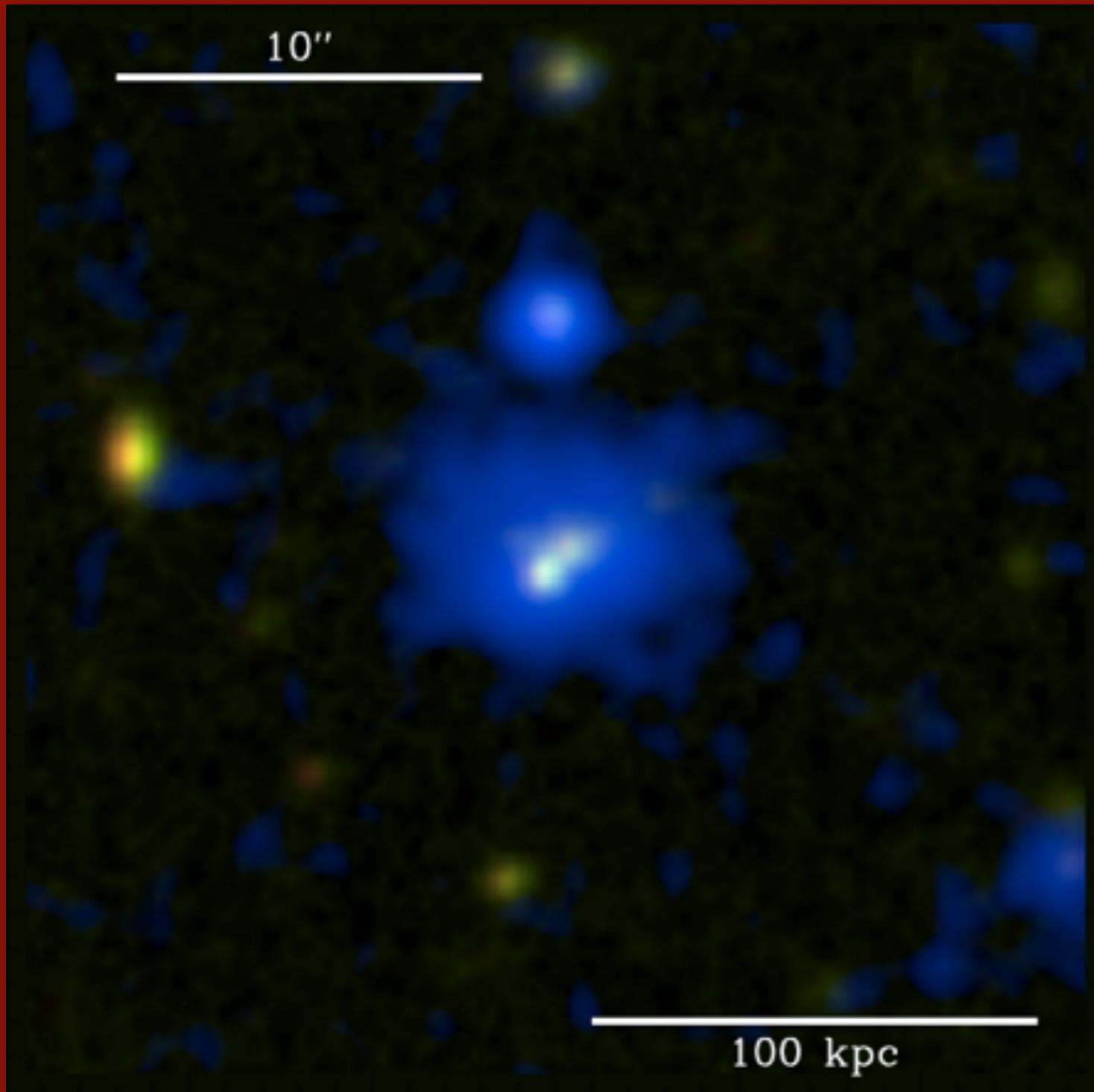


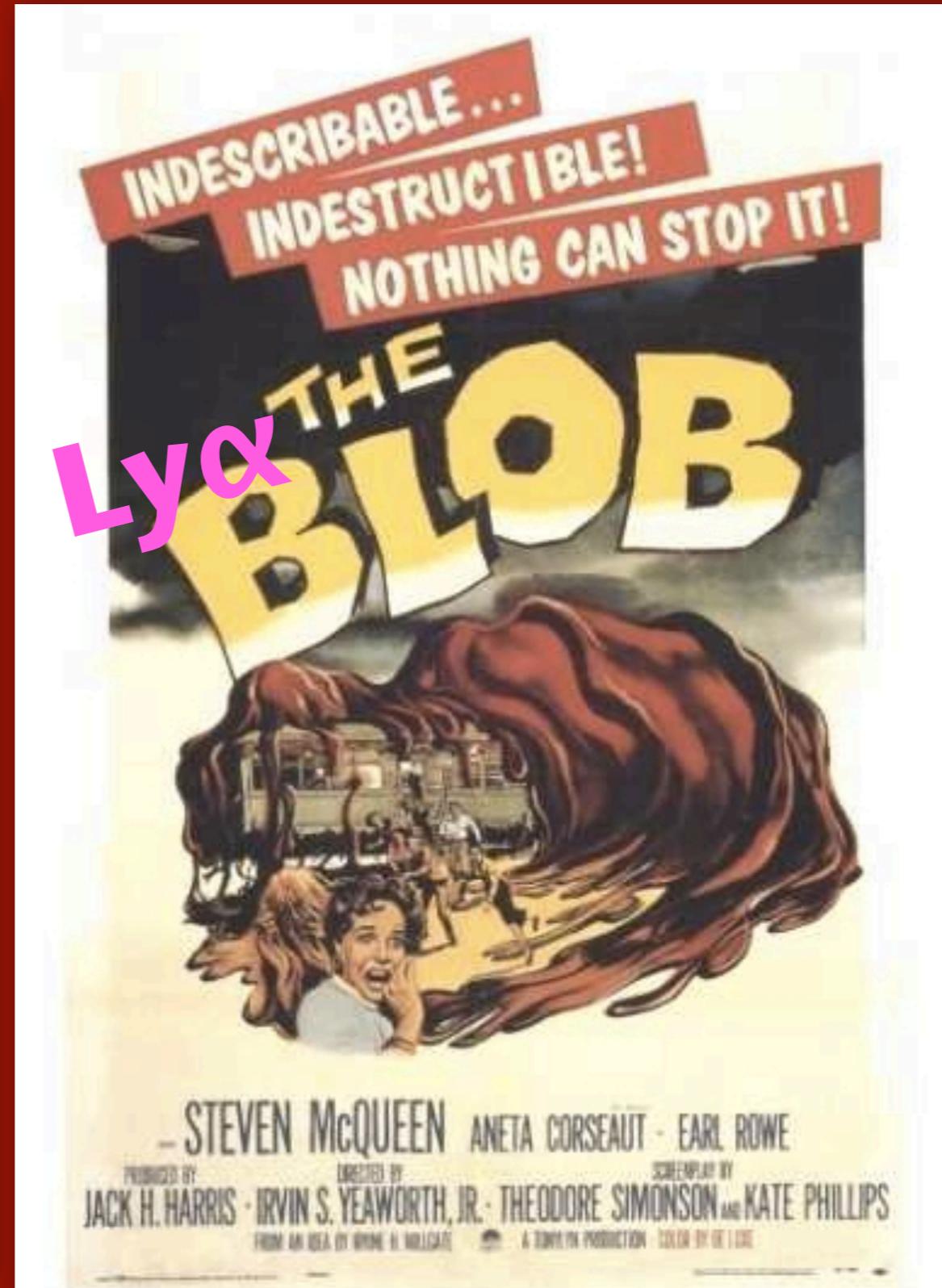
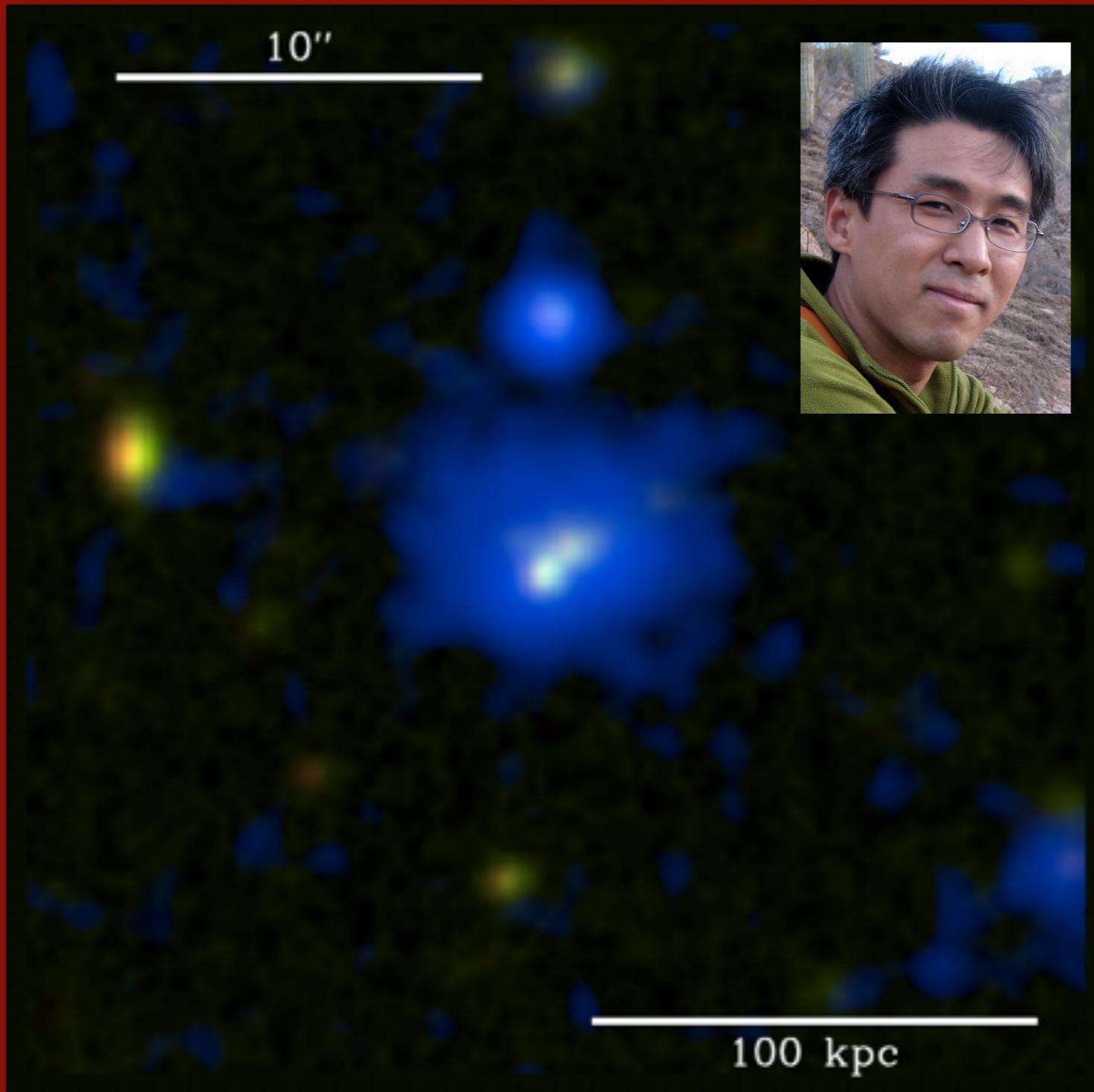
Attack of the Lyman- α Blobs

A. Zabludoff (Arizona), Y. Yang (KASI), E.-C. Kim (SNU),
C. You (Arizona), Z. Cai (UCSC)



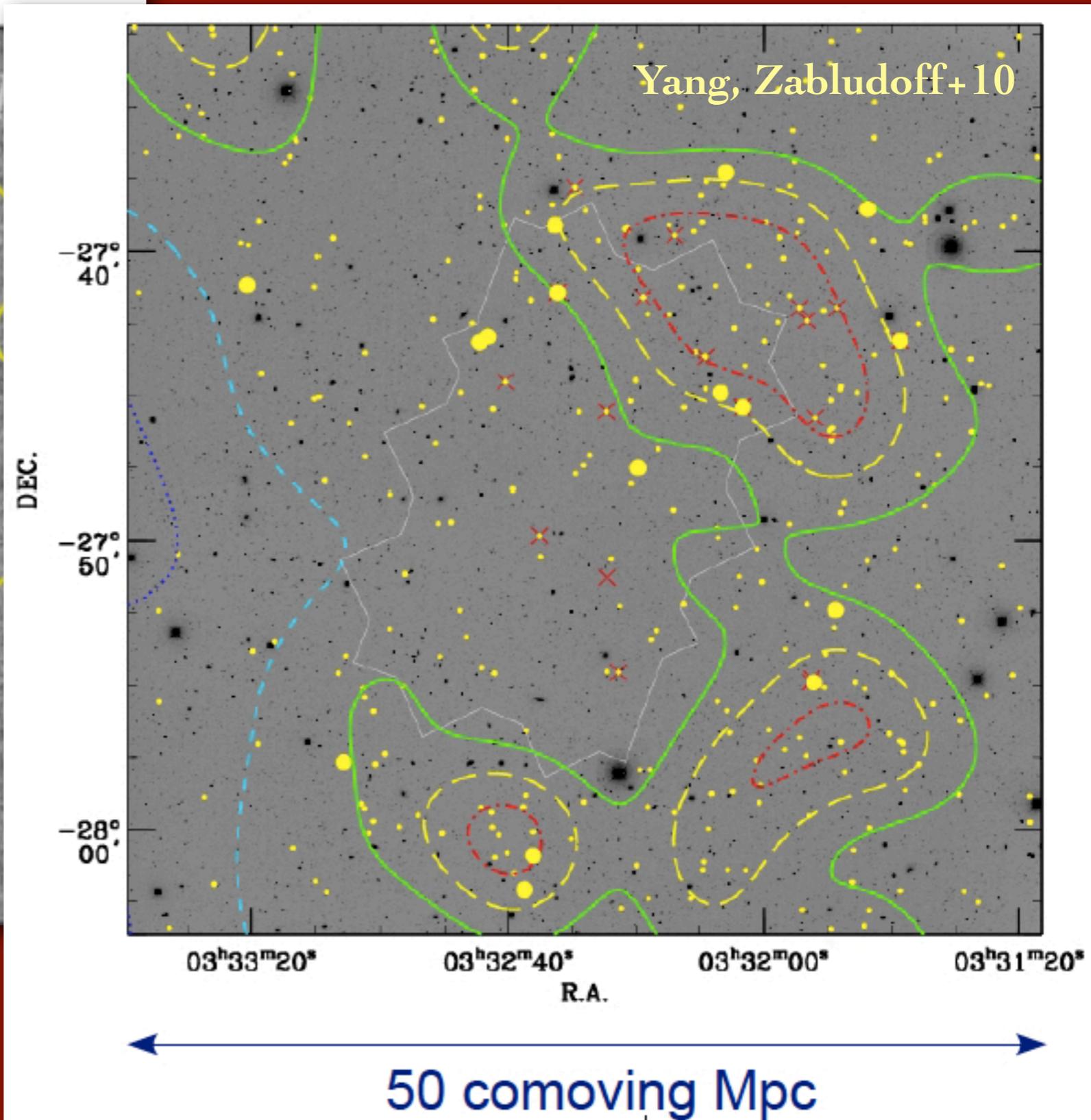
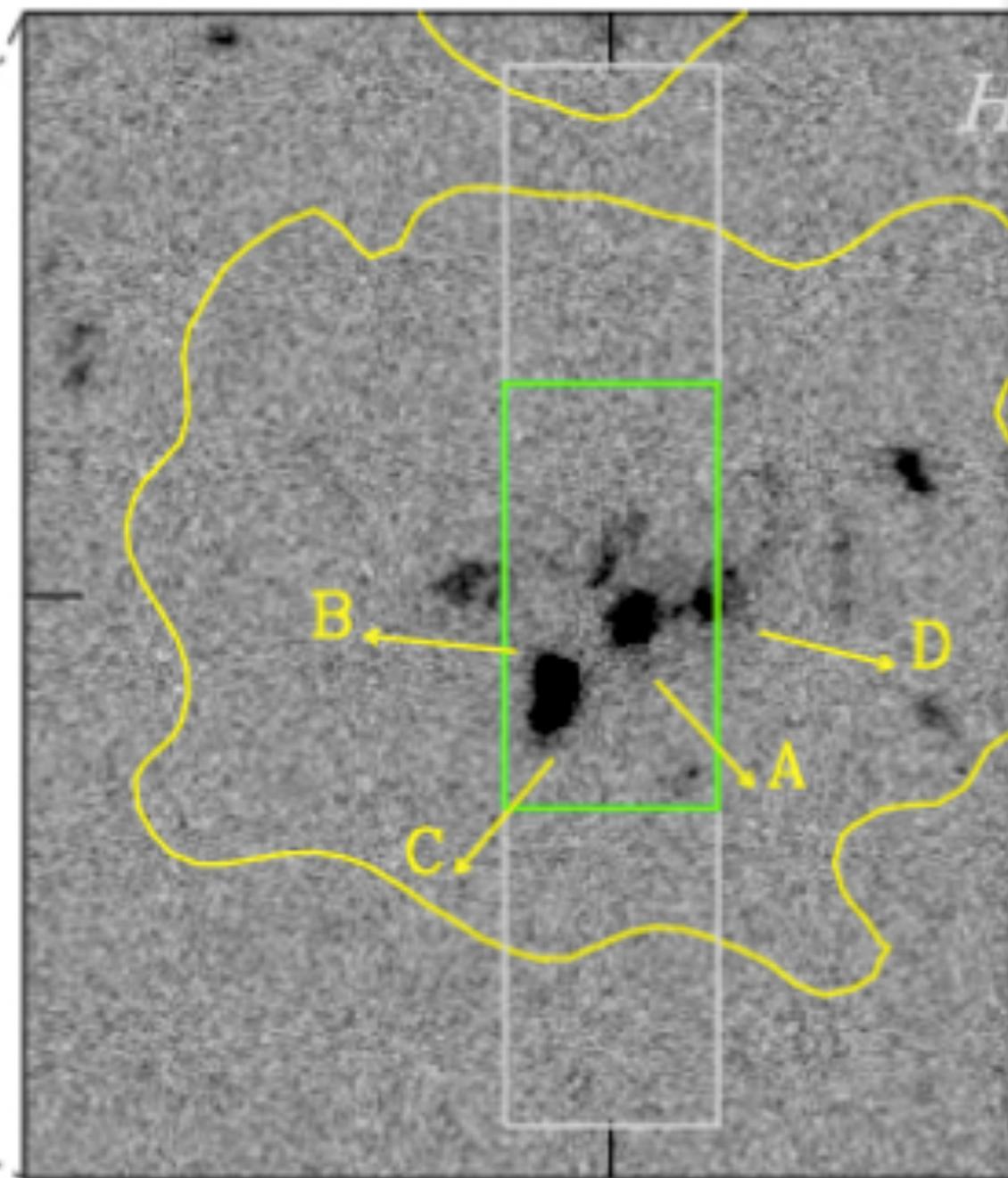
Attack of the Lyman- α Blobs

A. Zabludoff (Arizona), Y. Yang (KASI), E.-C. Kim (SNU),
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What Are They?

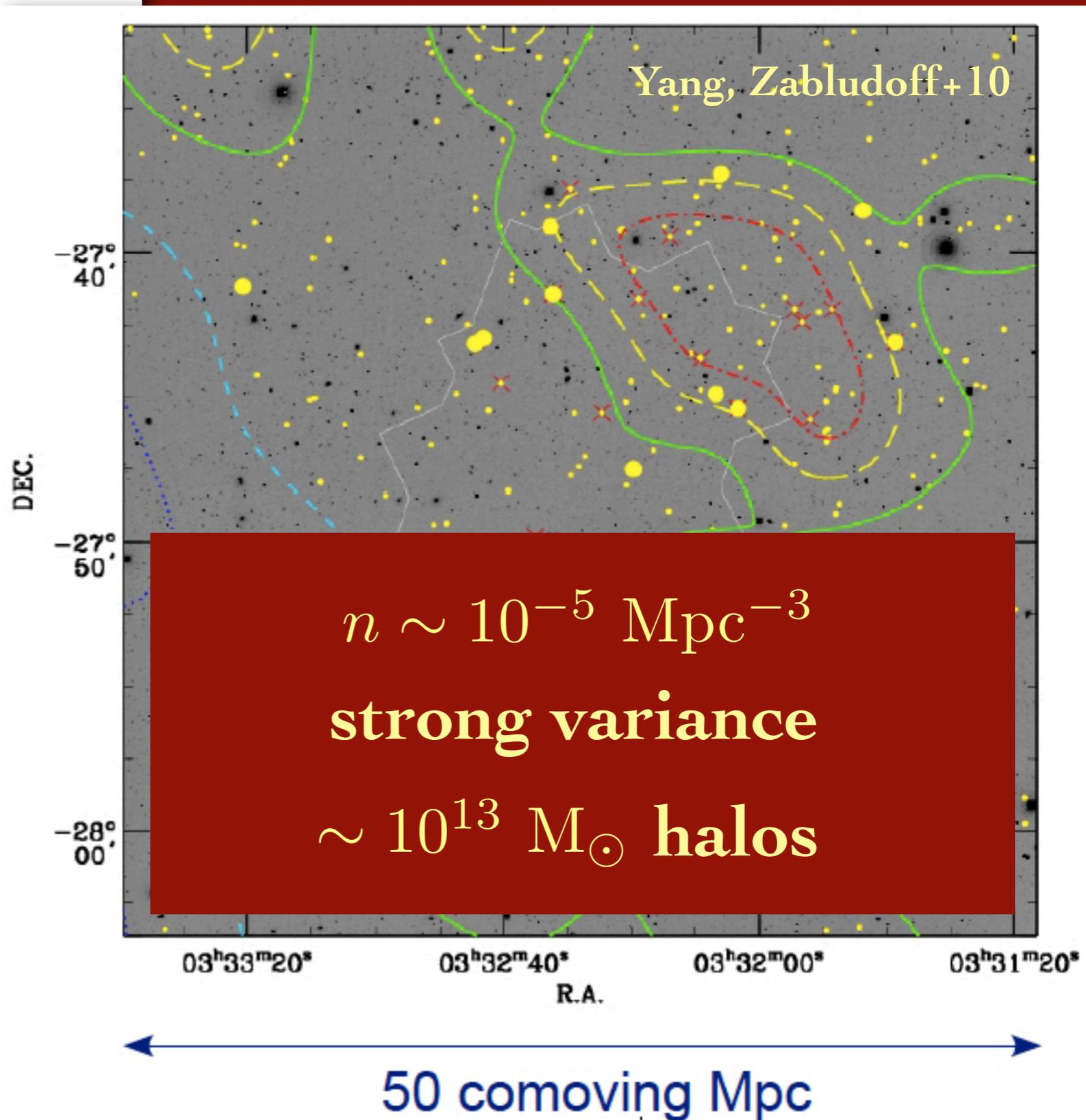
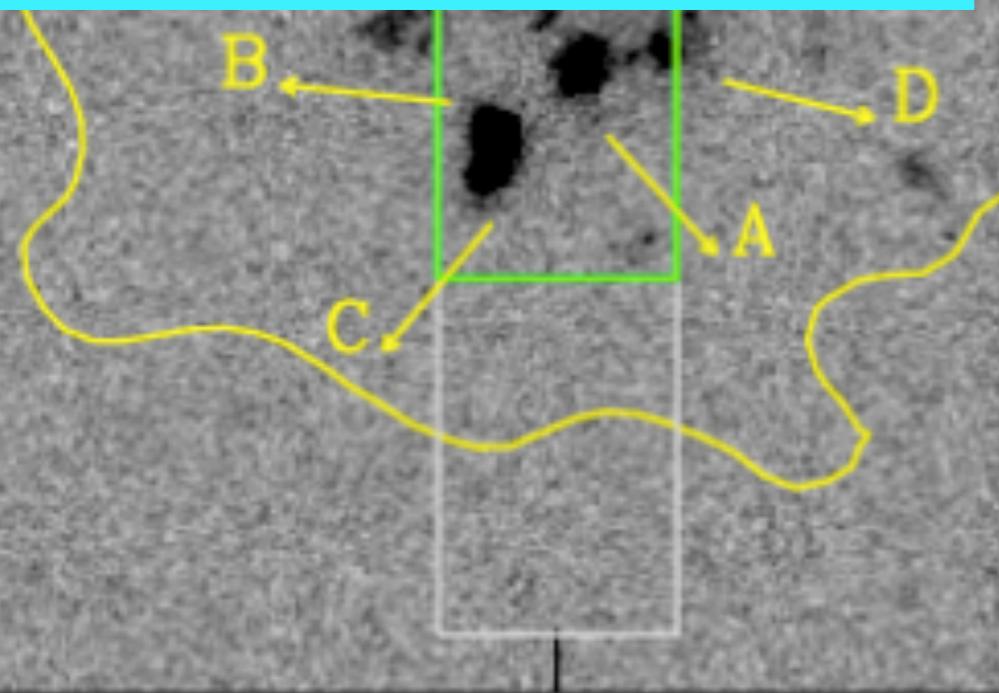
CDFS LAB02



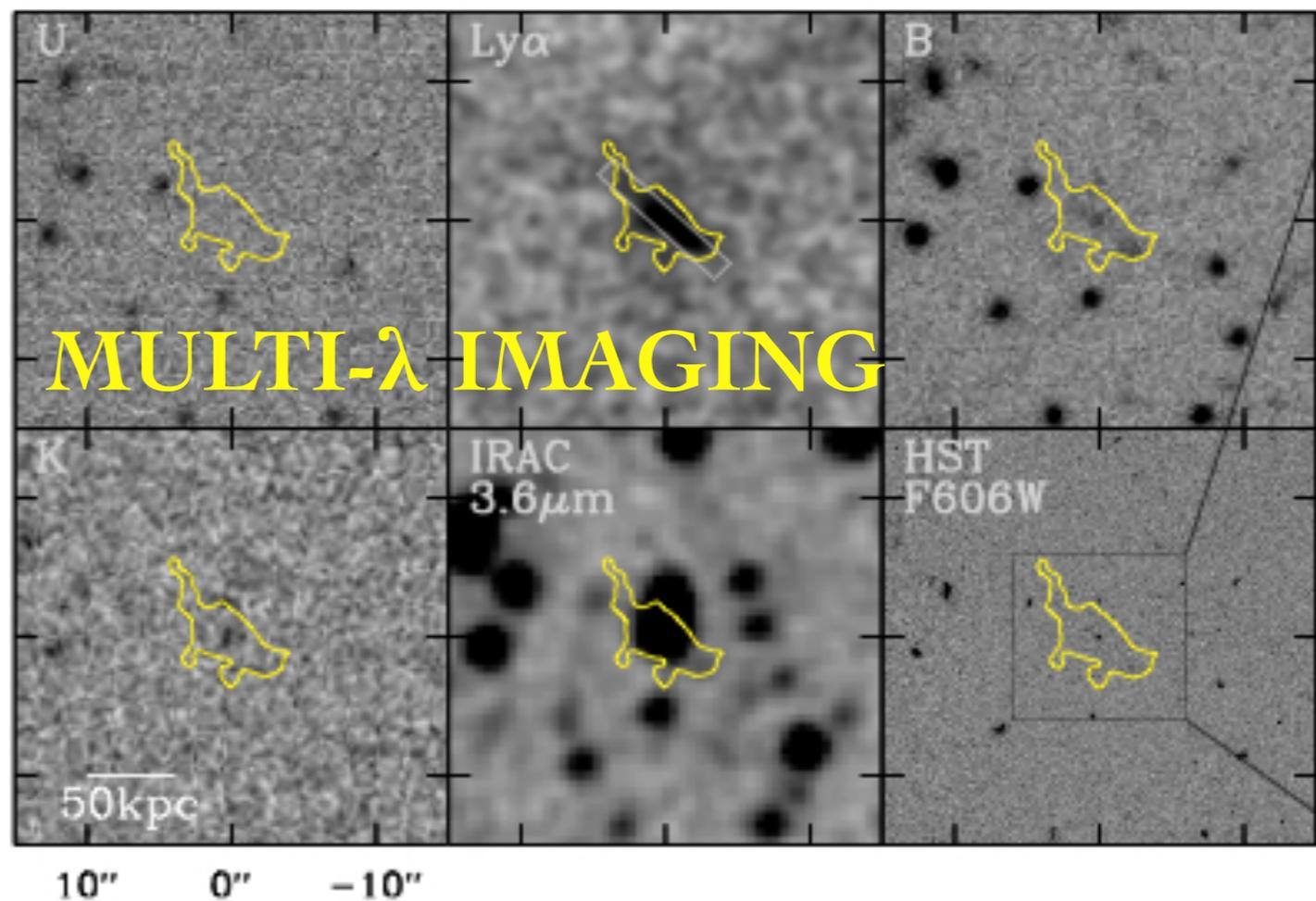
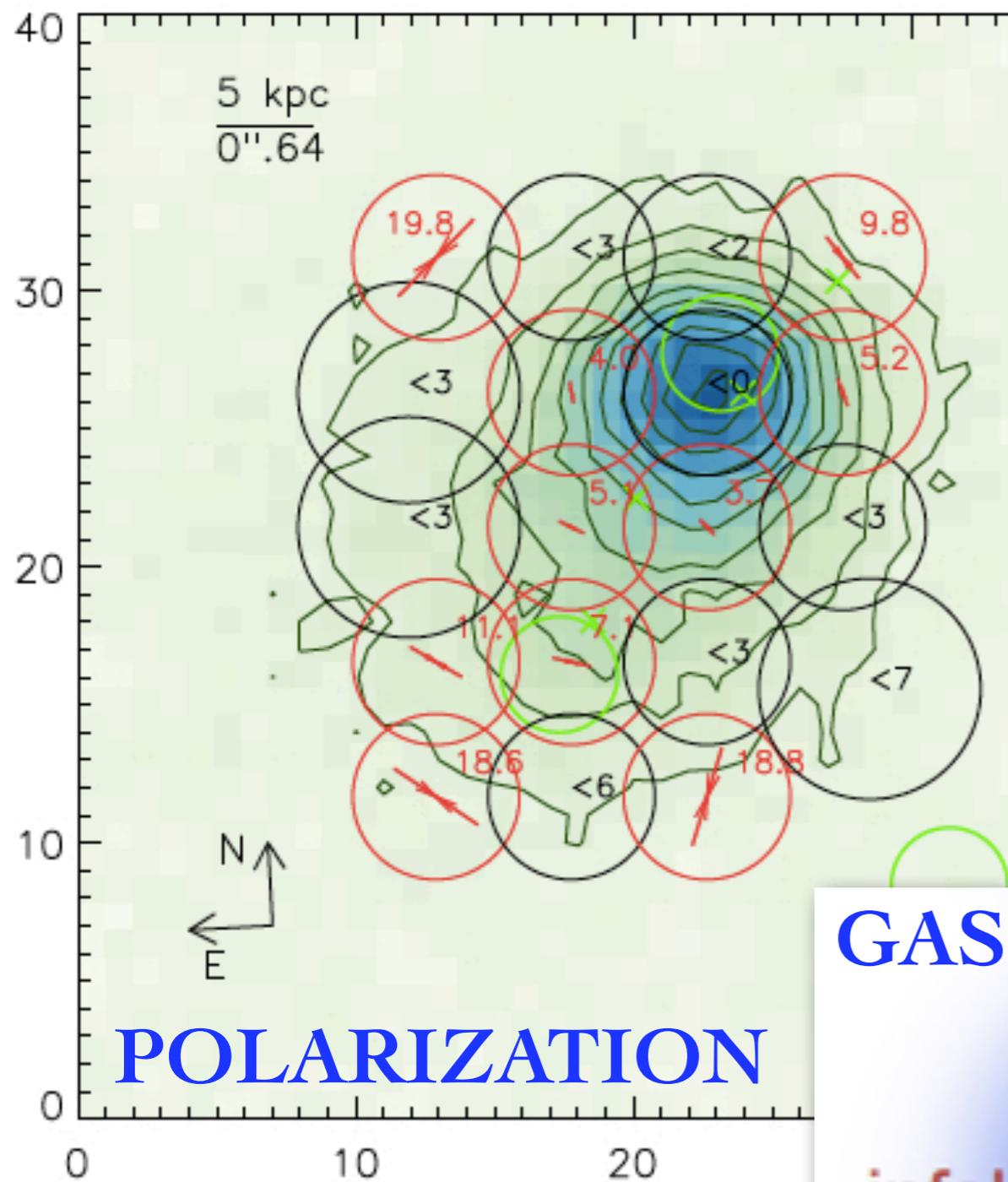
What Are They?

CDFS LAB02

$\sigma_v = 130-190 \text{ km s}^{-1}$
→ massive galaxies
 $\Delta v = 440 \text{ km s}^{-1}$
→ group-like halos

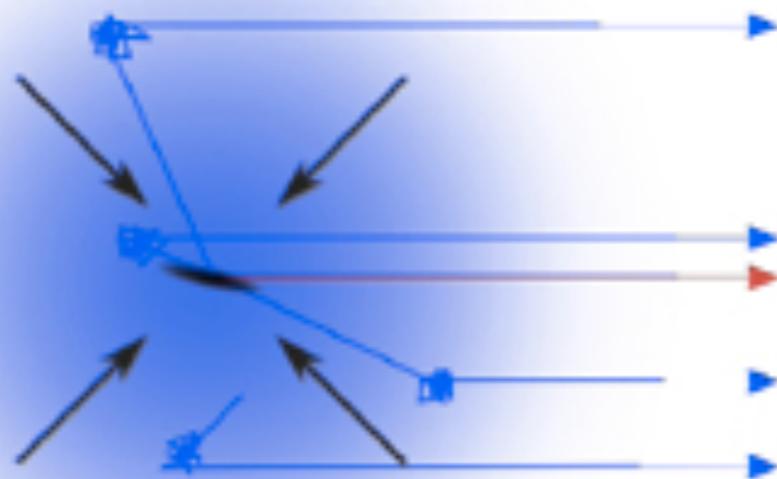


What Powers Them?

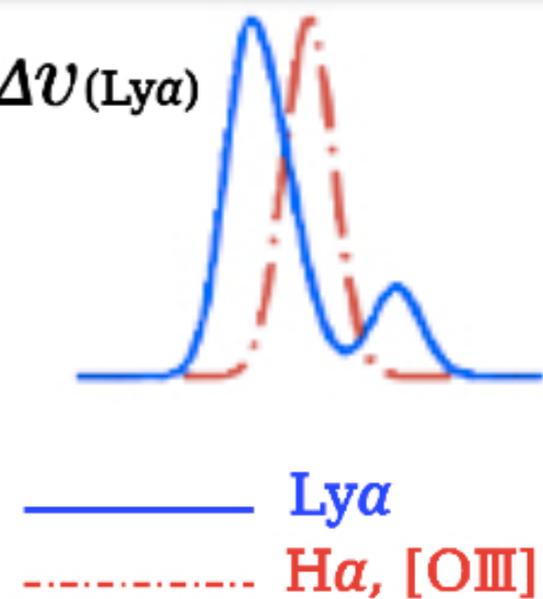


GAS SPECTROSCOPY

infall



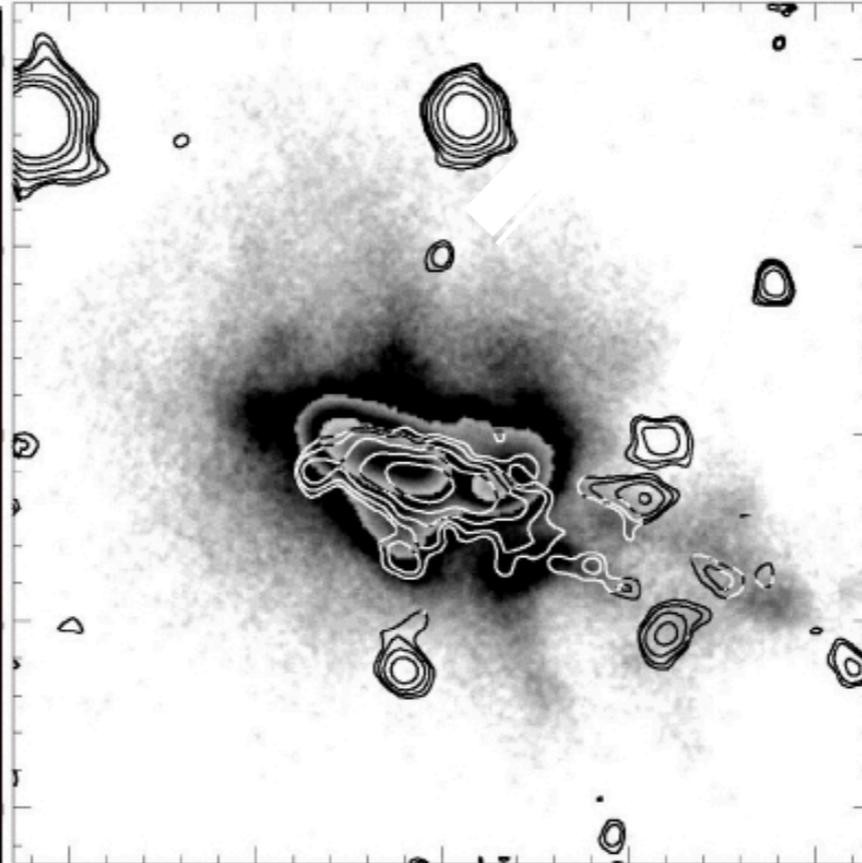
$\Delta v(\text{Ly}\alpha)$



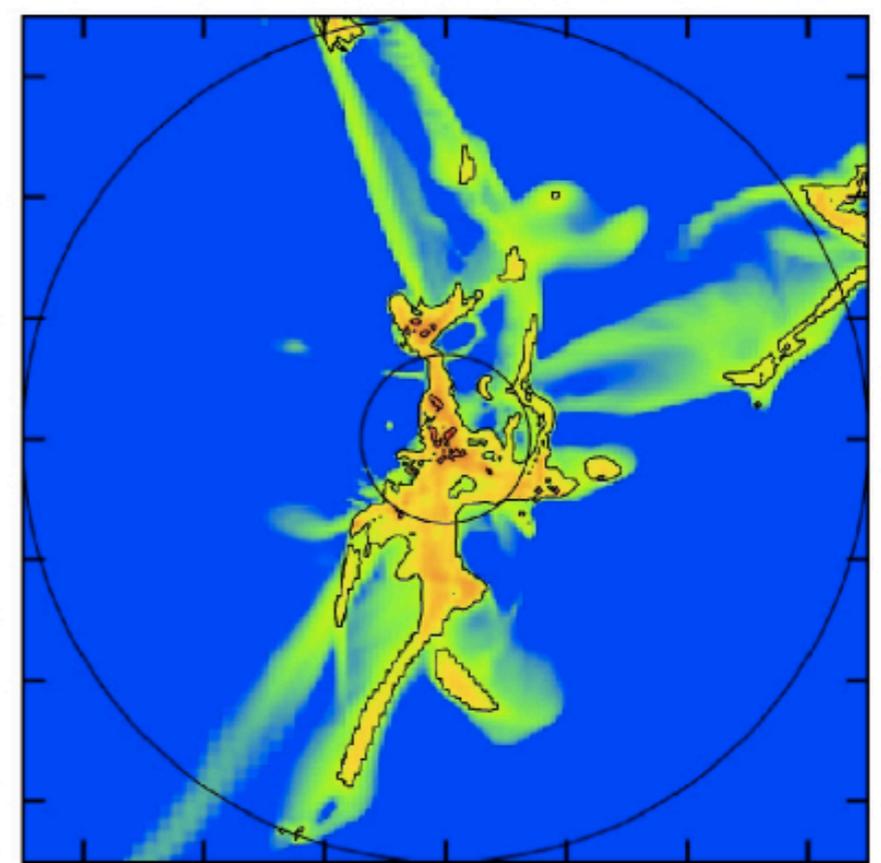
What Powers Them?



Superwind
Galactic wind in M82

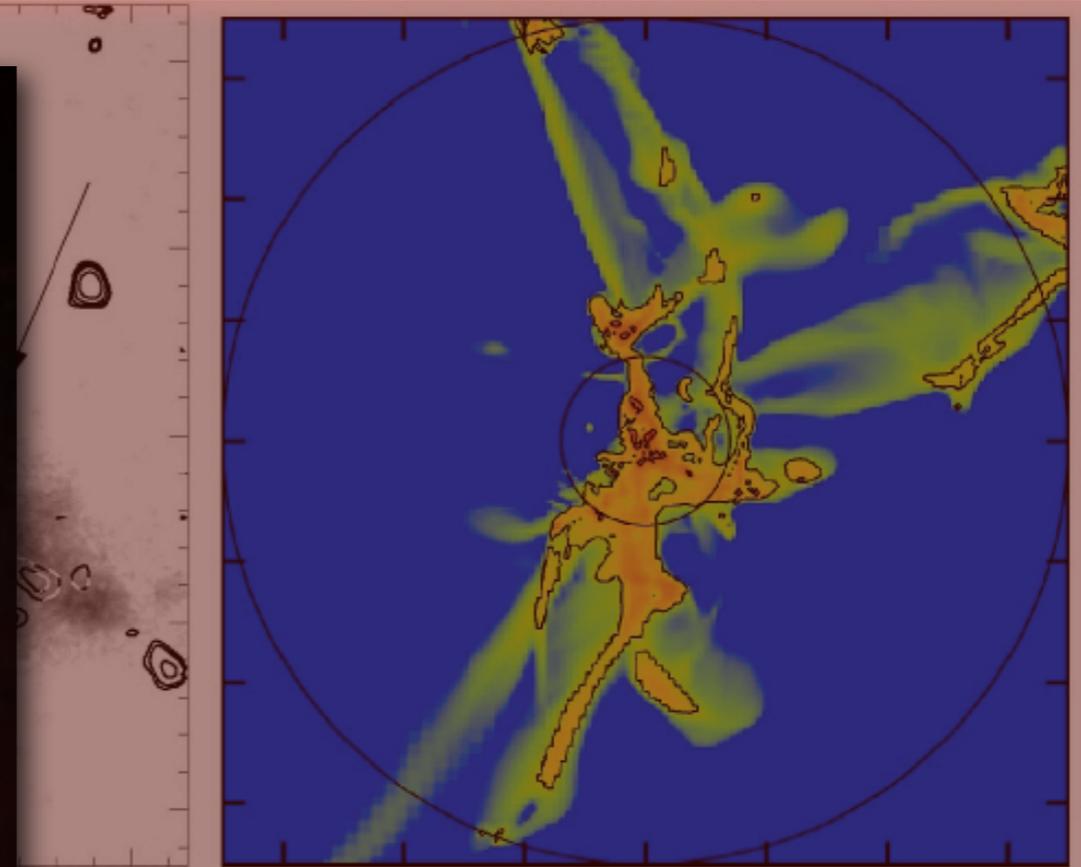


High-z radio galaxy
(Reuland+03)
(e.g Miley & De Breuck 08)



Cold accretion/stream
(Goerdt+10)

What Powers Them?

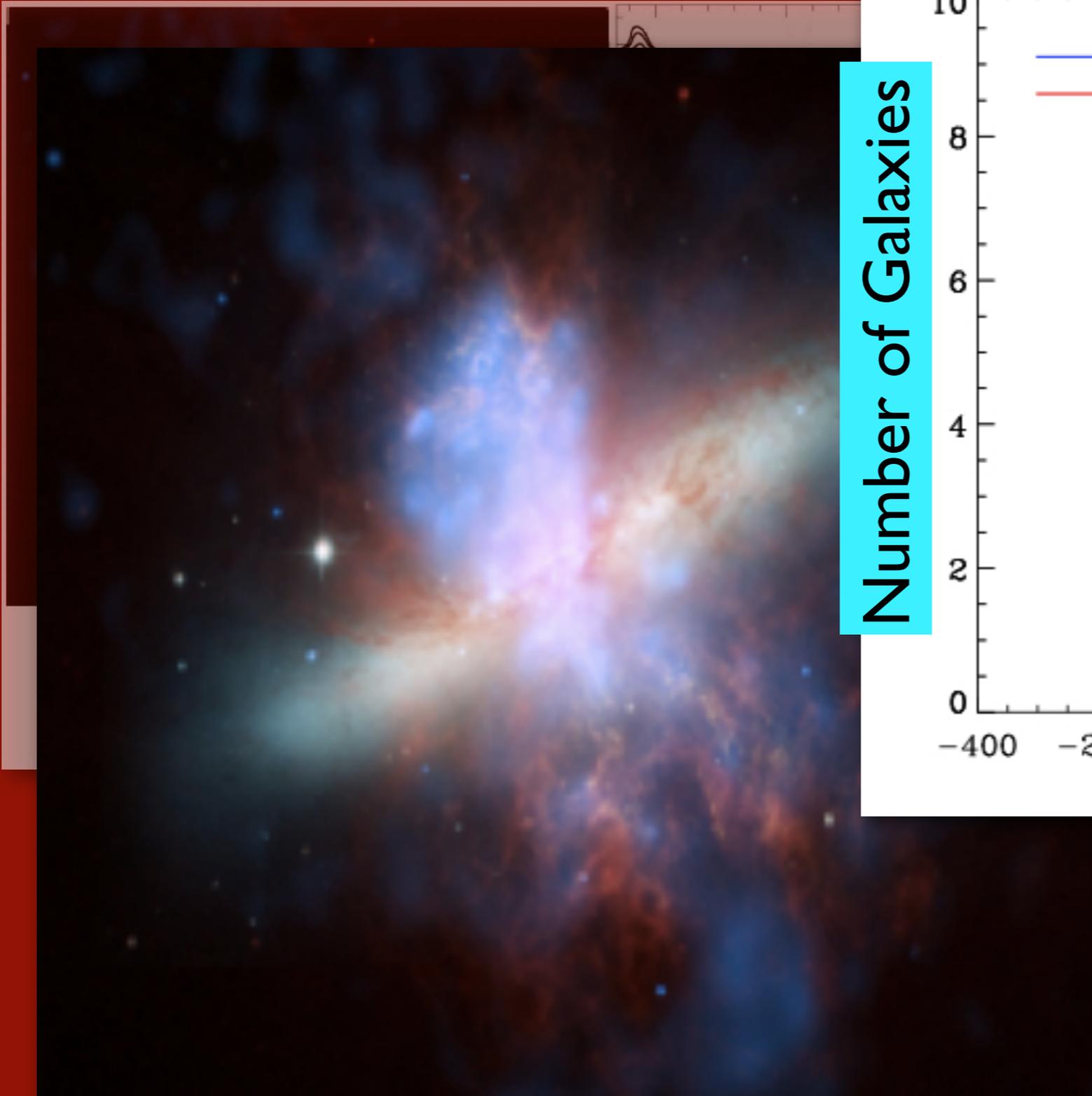


Cold accretion/stream
(Goerdt+10)

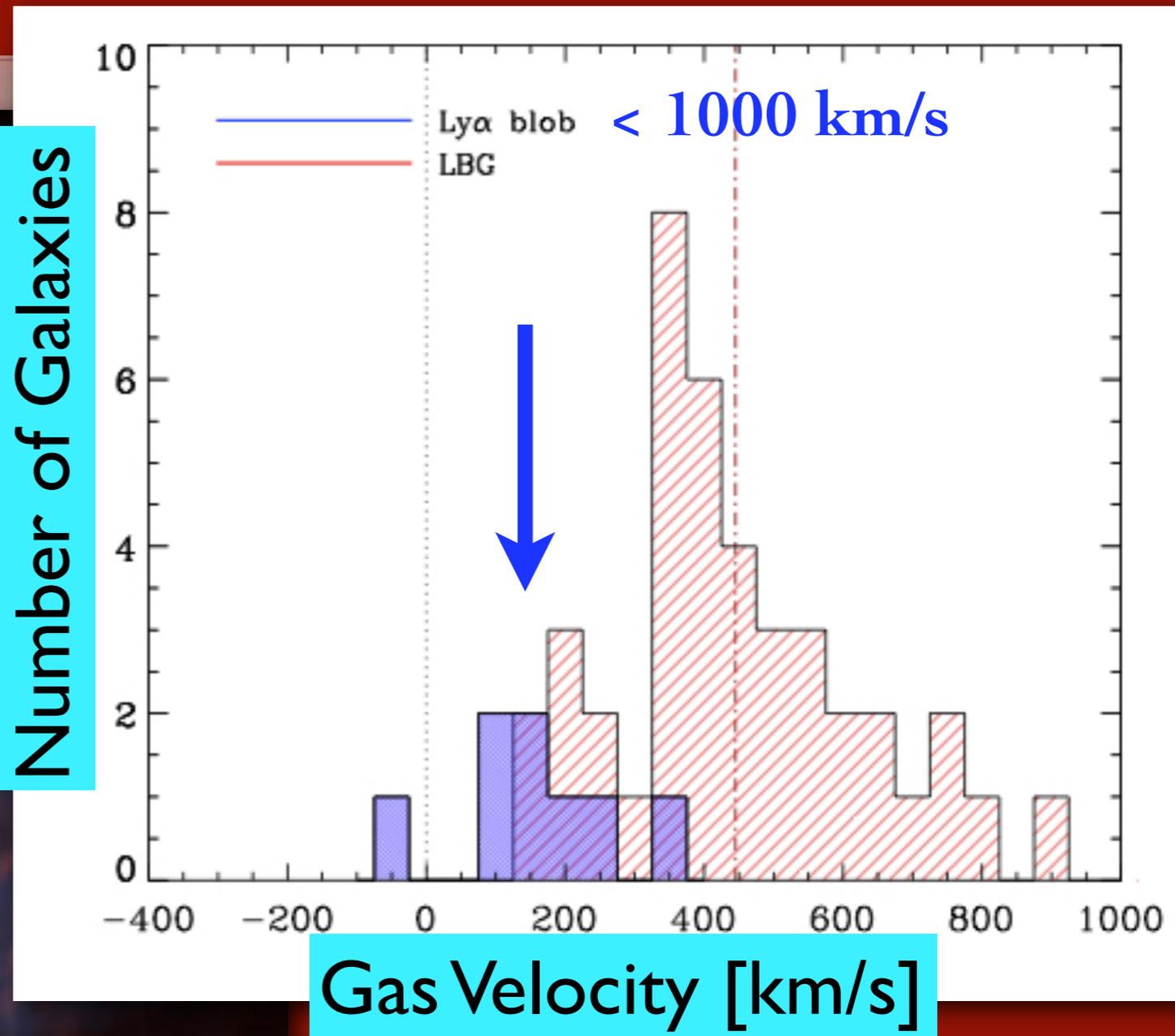
y
k 08)

What Powers Them?

Yang, Zabludoff+14



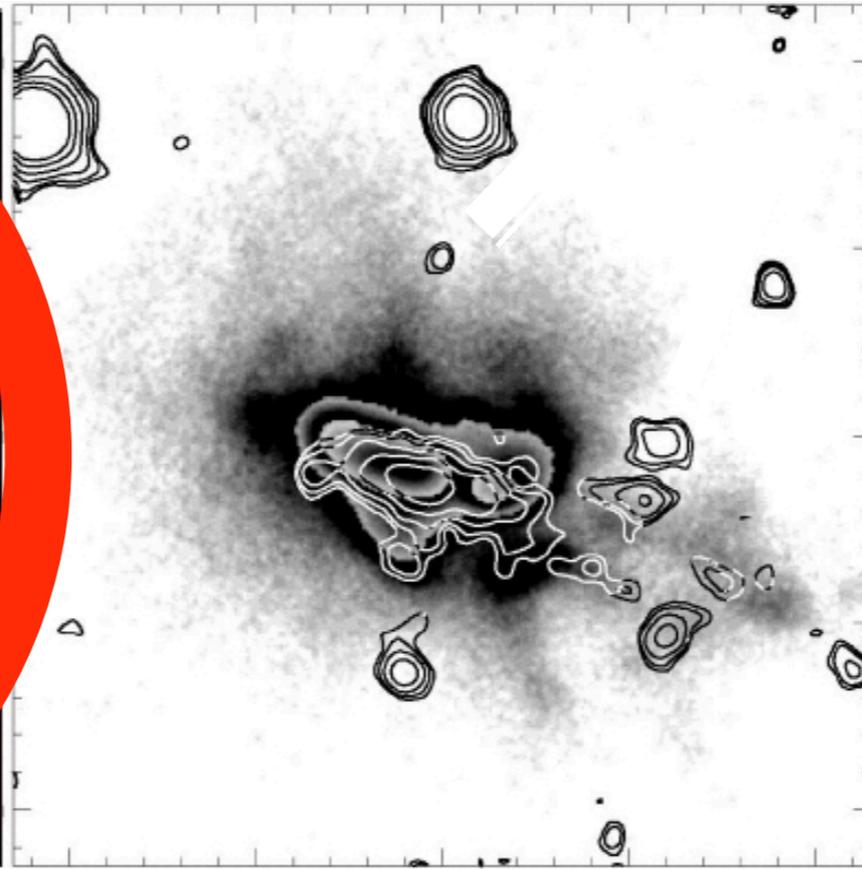
Number of Galaxies



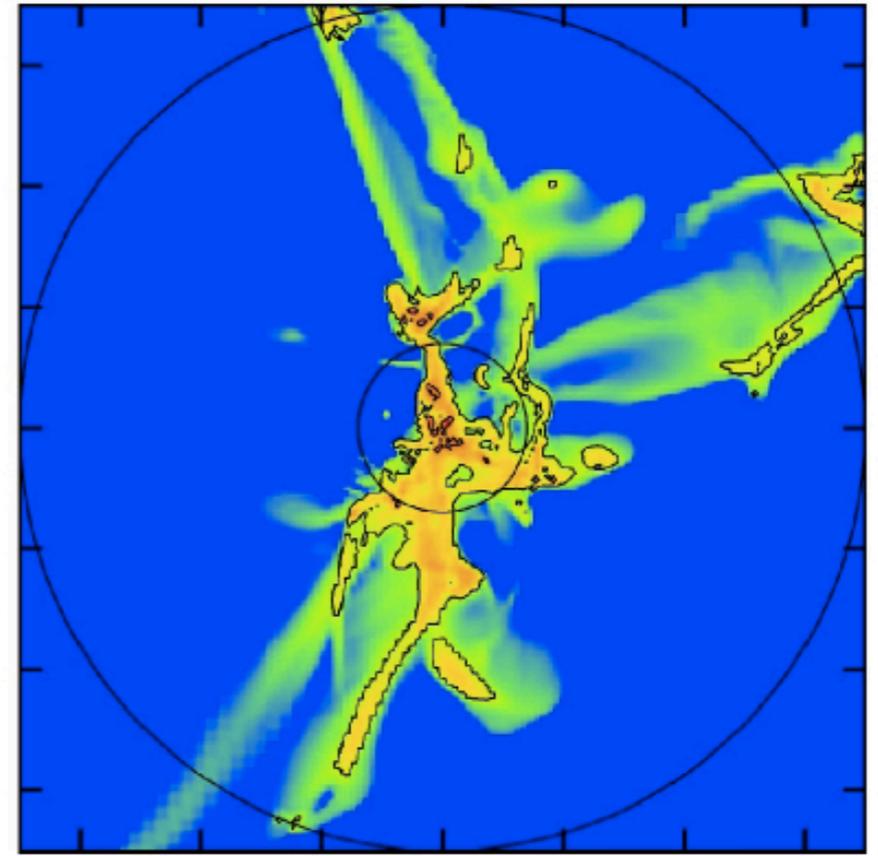
What Powers Them?



Galactic wind in M82



High-z radio galaxy
(Reuland+03)
(e.g Miley & De Breuck 08)



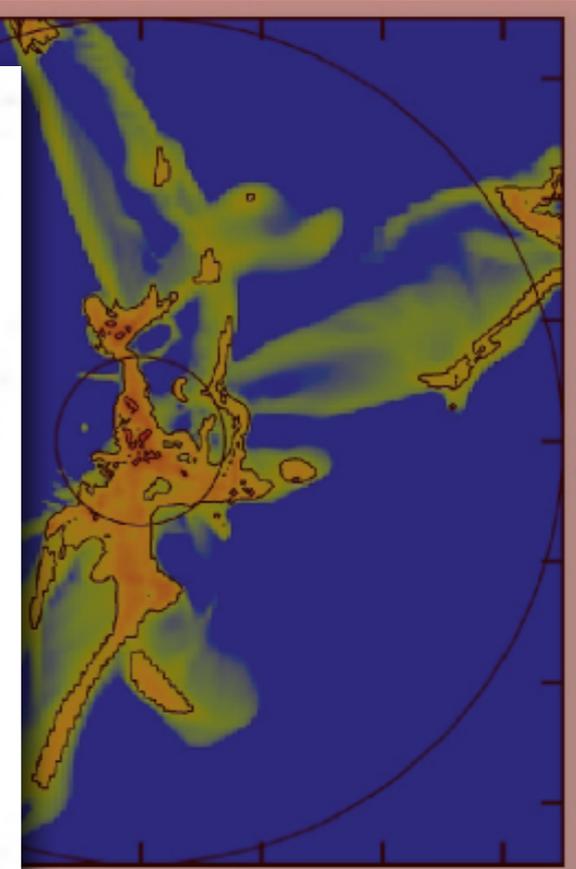
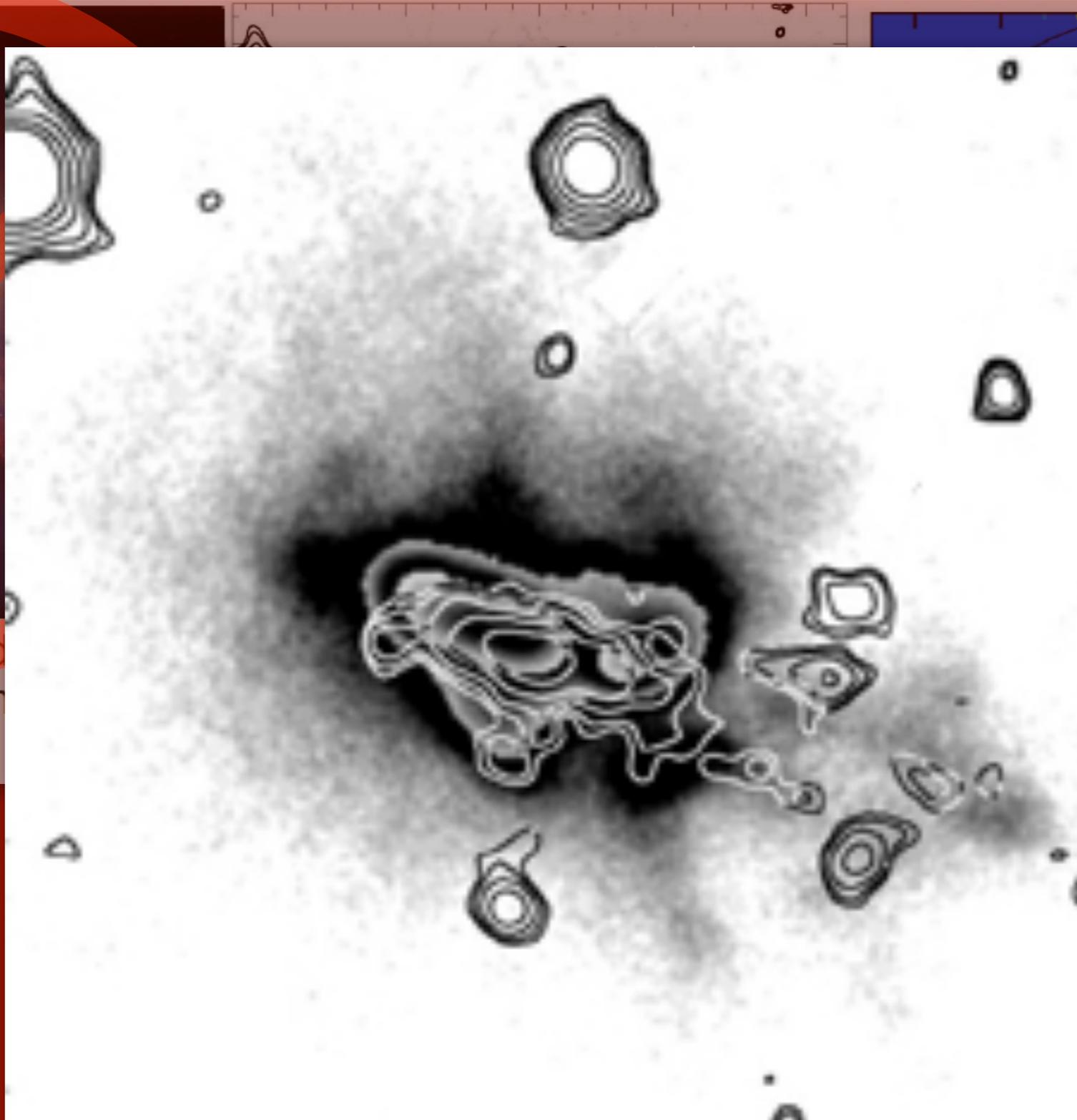
Cold accretion/stream
(Goerdt+10)

- not superwinds

What Powers Them?



Superwind
Galactic wind in



accretion/stream
(Goerdt+10)

What Powers Them?

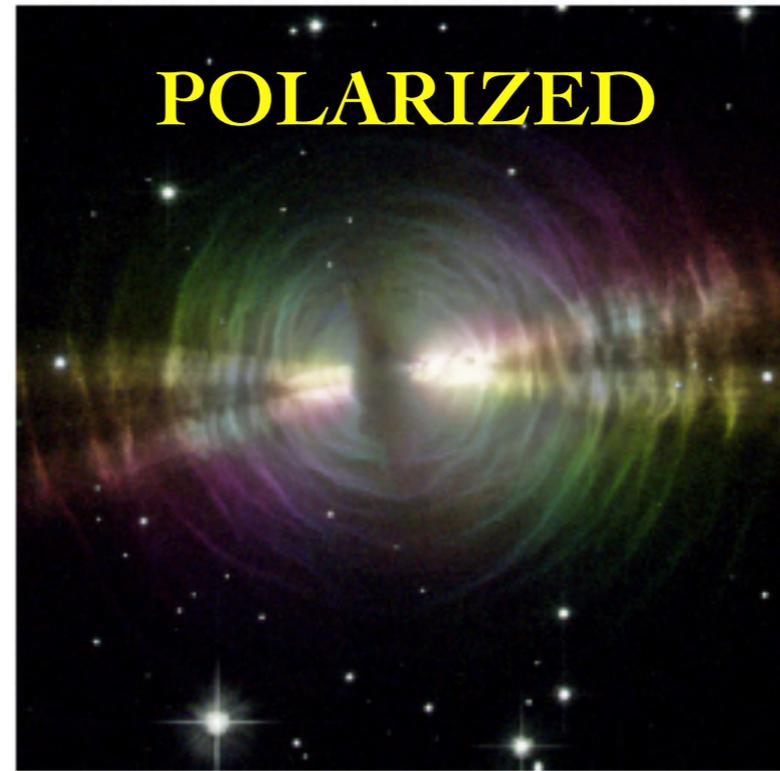
NON-POLARIZED



photo-ionization
by stars & AGN
(H II region in M33)

or

POLARIZED



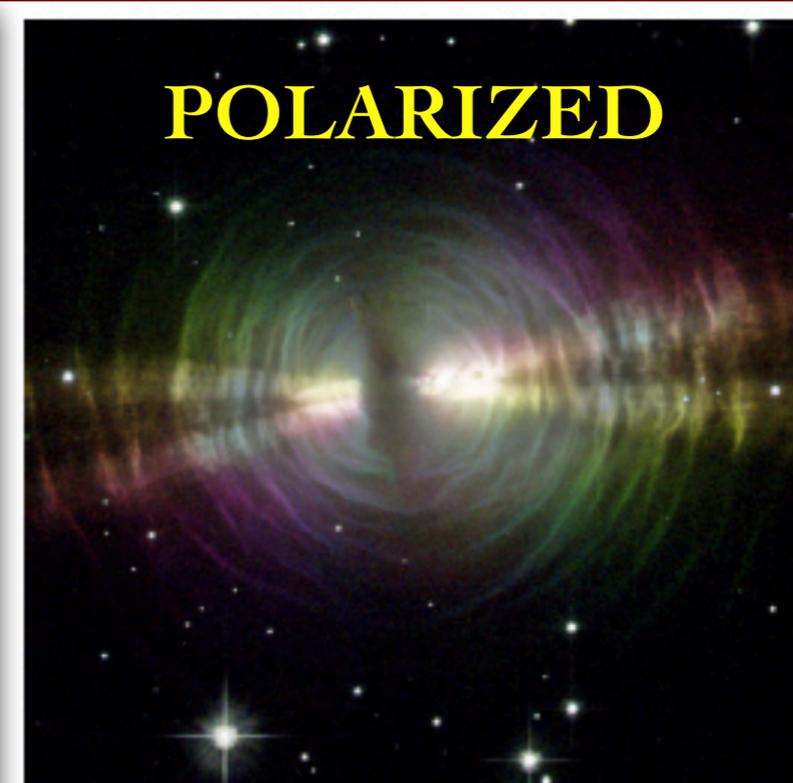
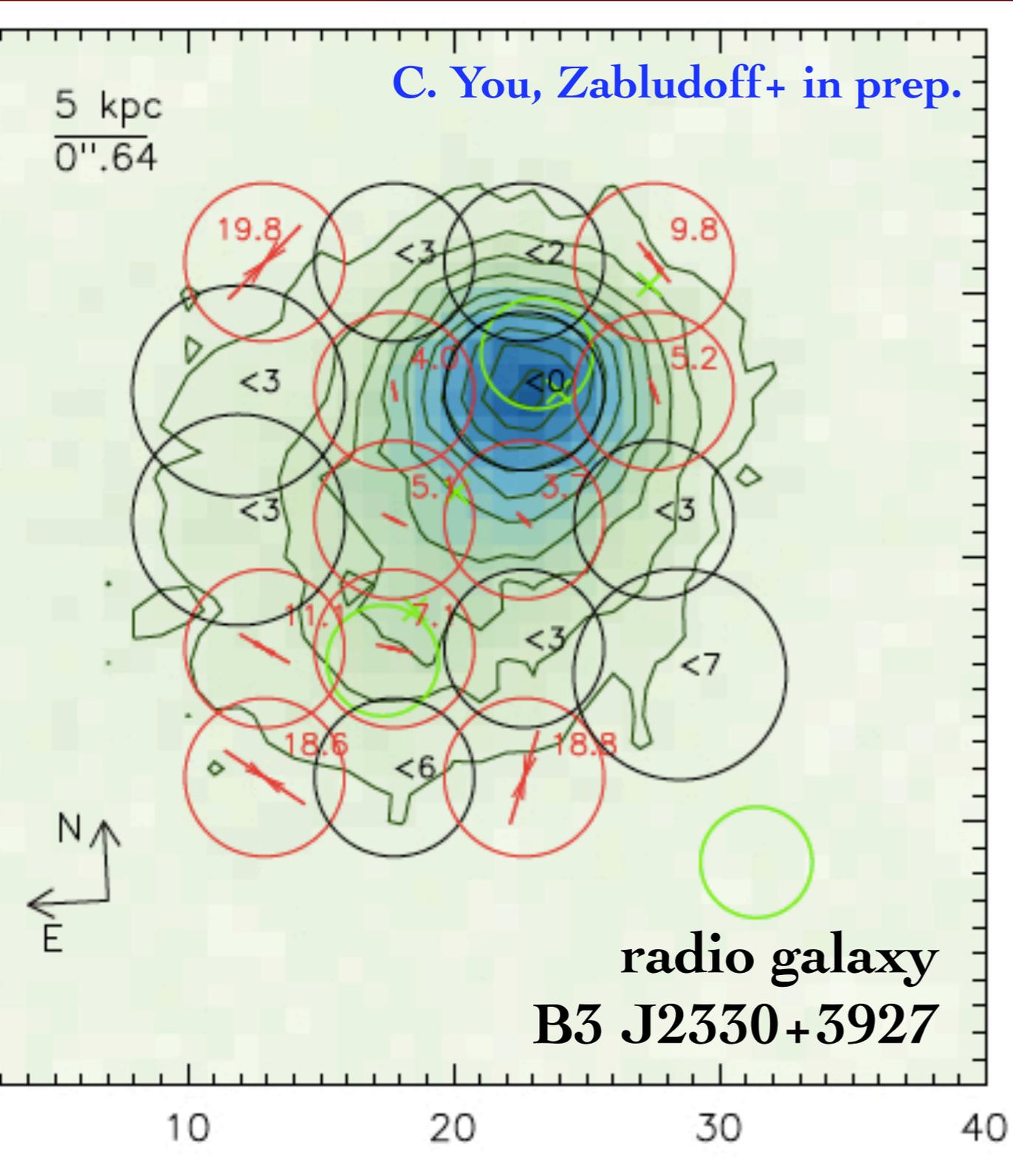
resonant scattering
(scattering by dust
in Egg Nebula)

Super
Galactic wind

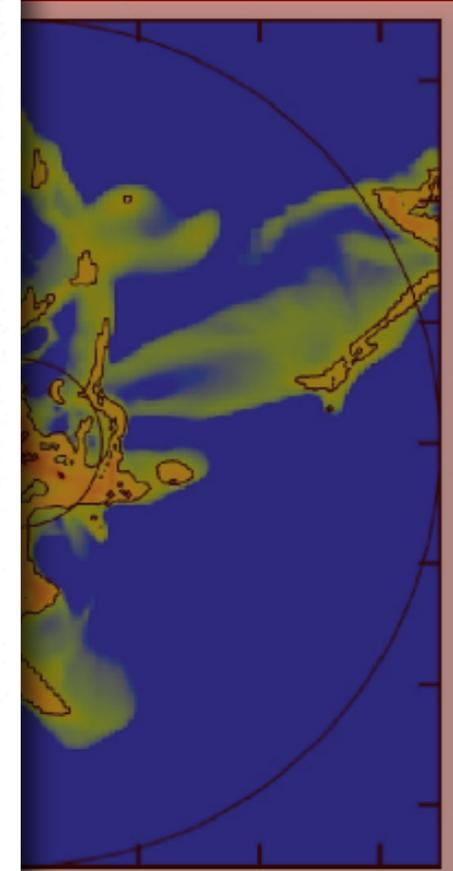
(e.g Miley & De Breuck 08)

tion/stream
dt+10)

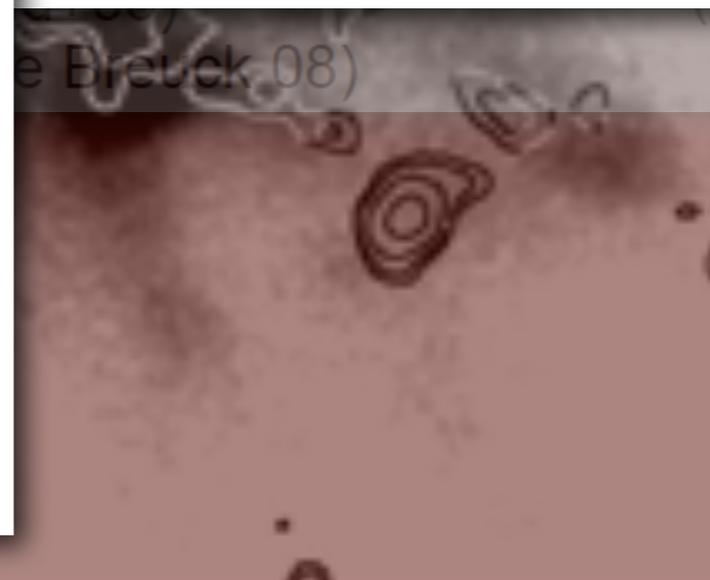
What Powers Them?



resonant scattering
(scattering by dust
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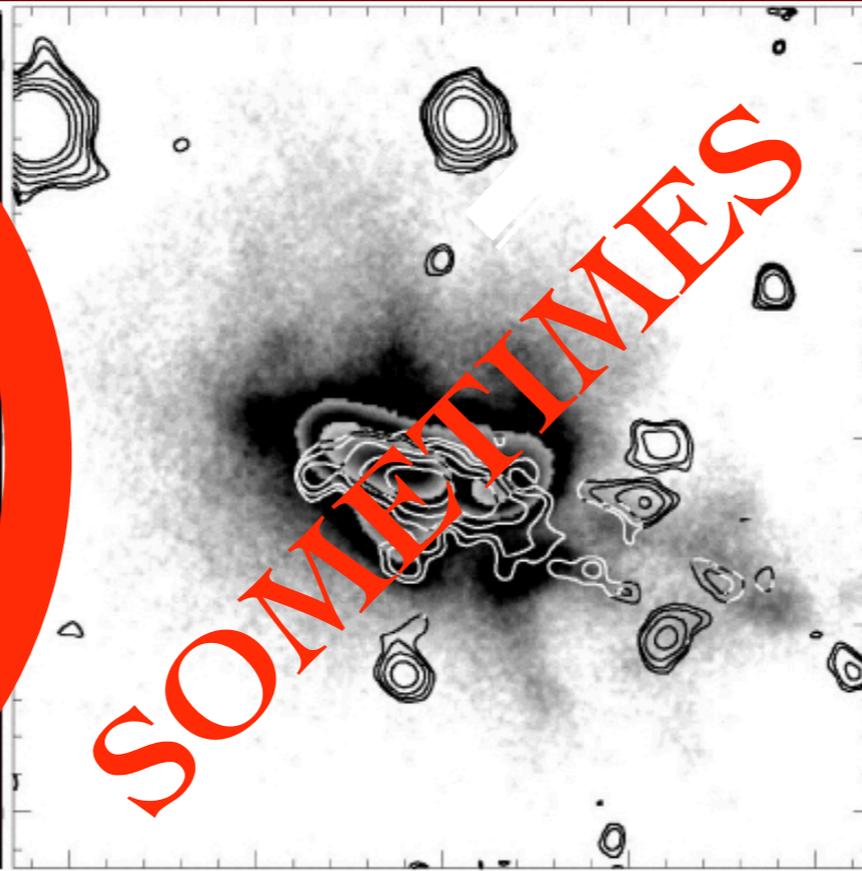
tion/stream
dt+10)



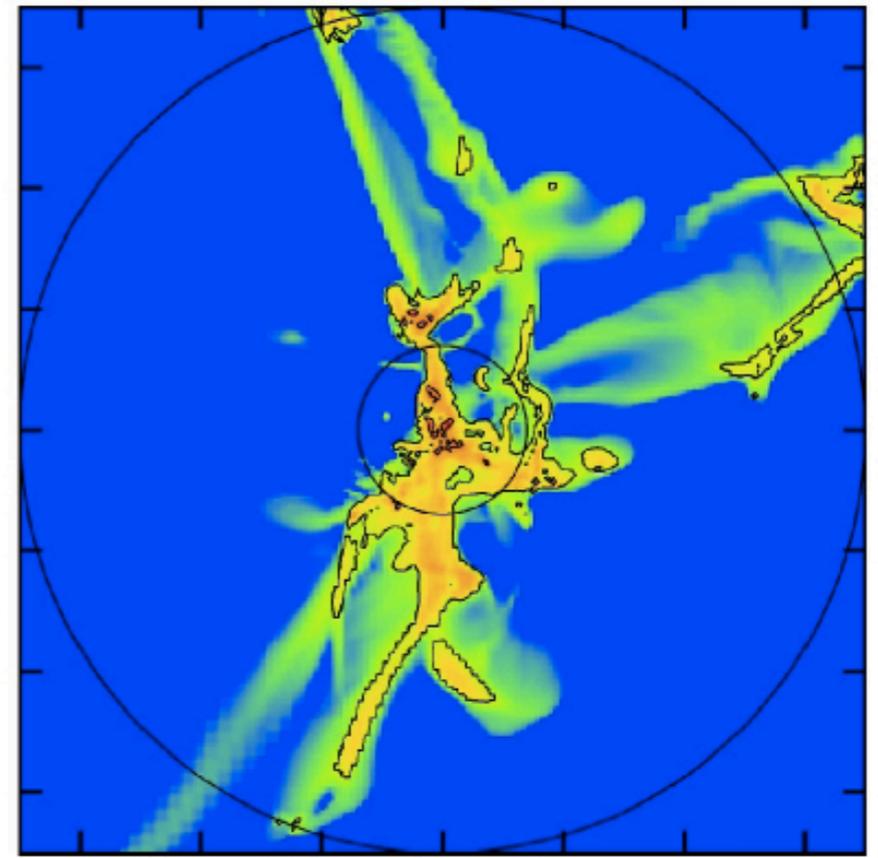
What Powers Them?



Galactic wind in M82



High-z radio galaxy
(Reuland+03)
(e.g Miley & De Breuck 08)



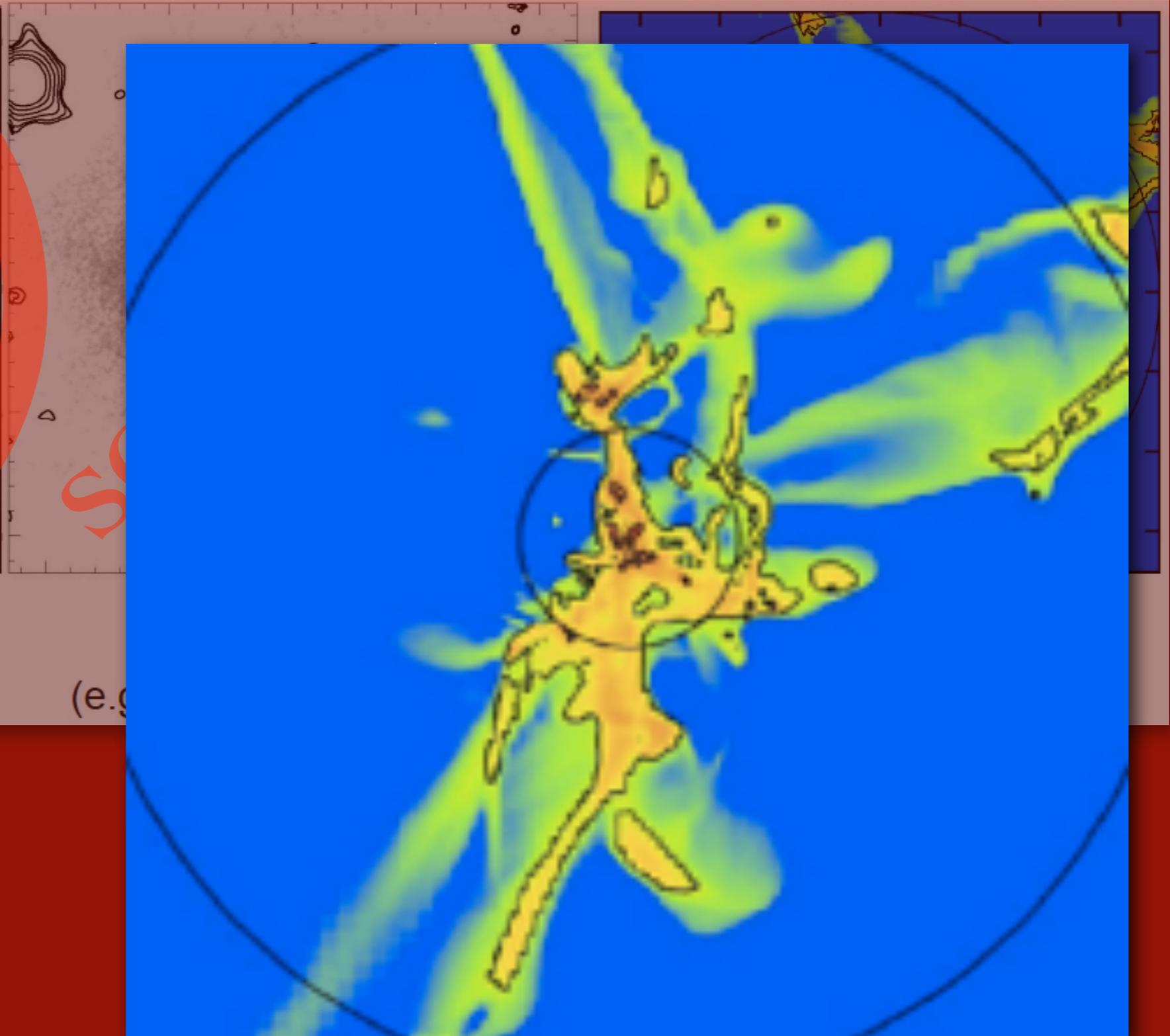
Cold accretion/stream
(Goerdt+10)

- not superwinds
- some resonant scattering from central source

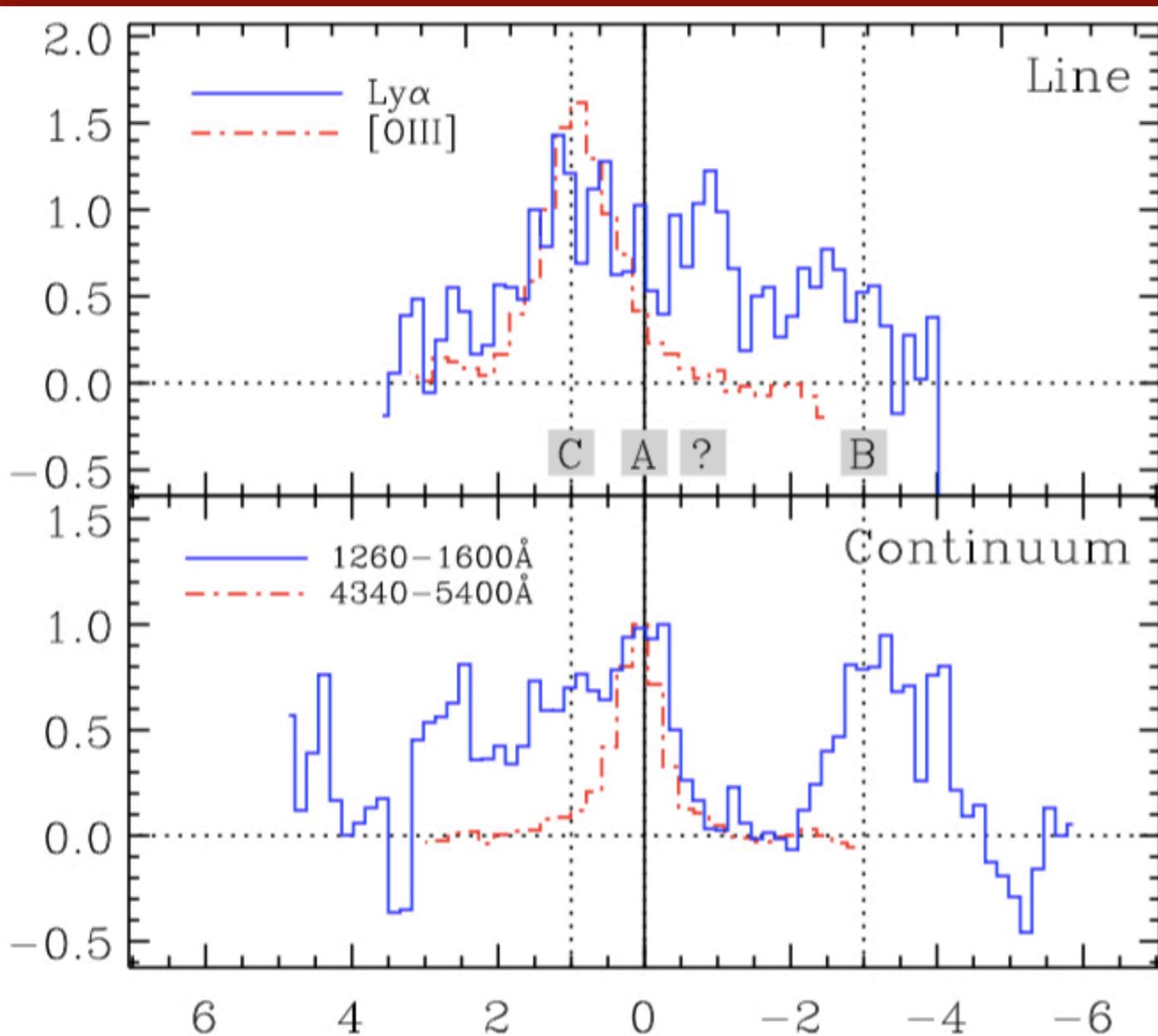
What Powers Them?



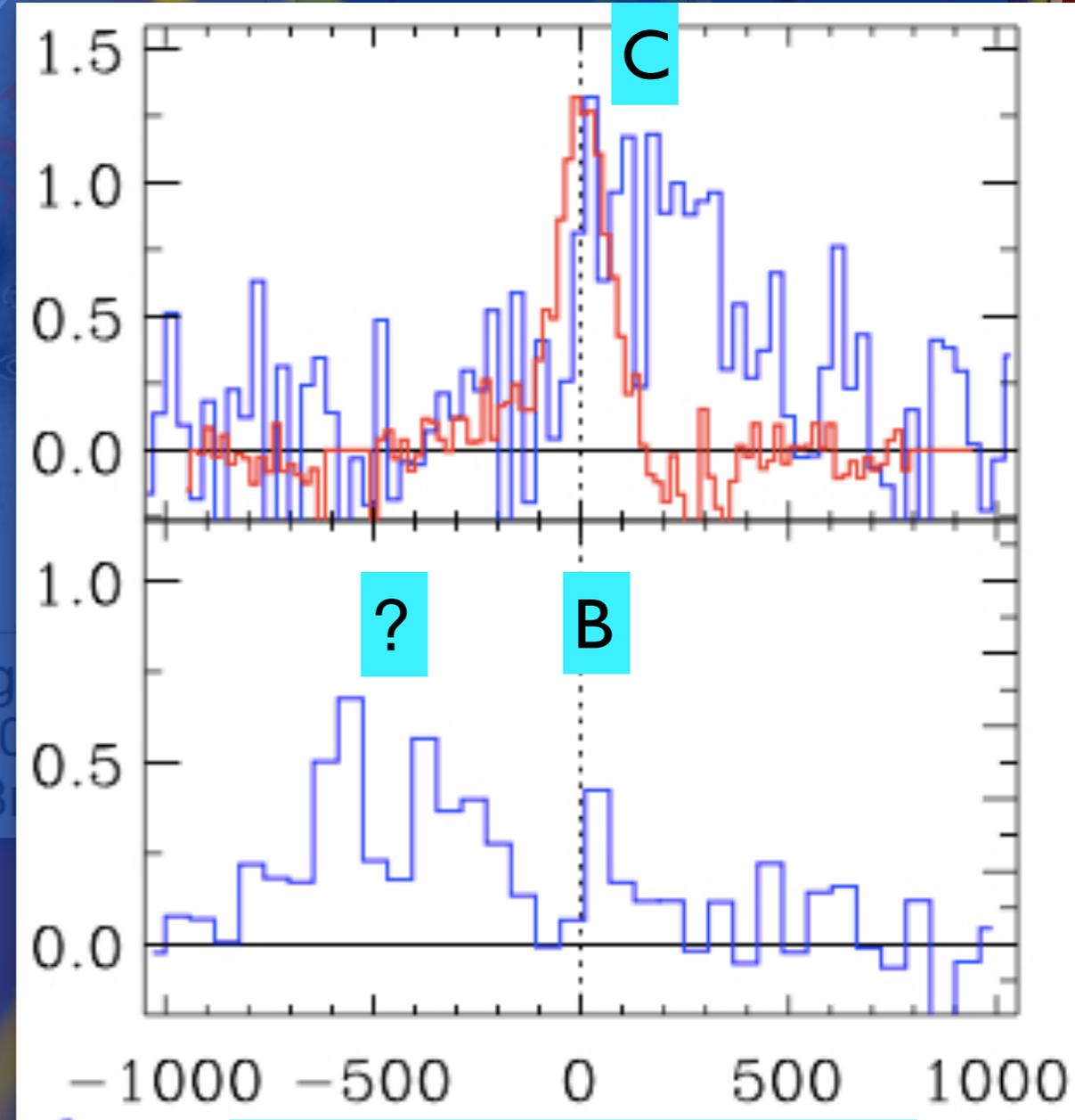
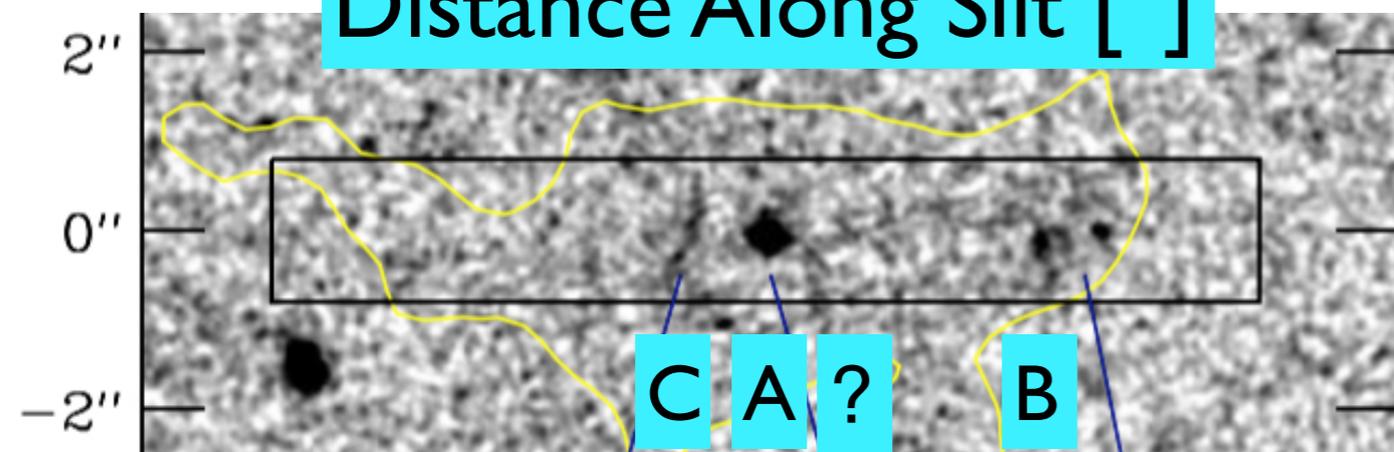
Superwind
Galactic wind in M82



What Powers Them?



Distance Along Slit ["]

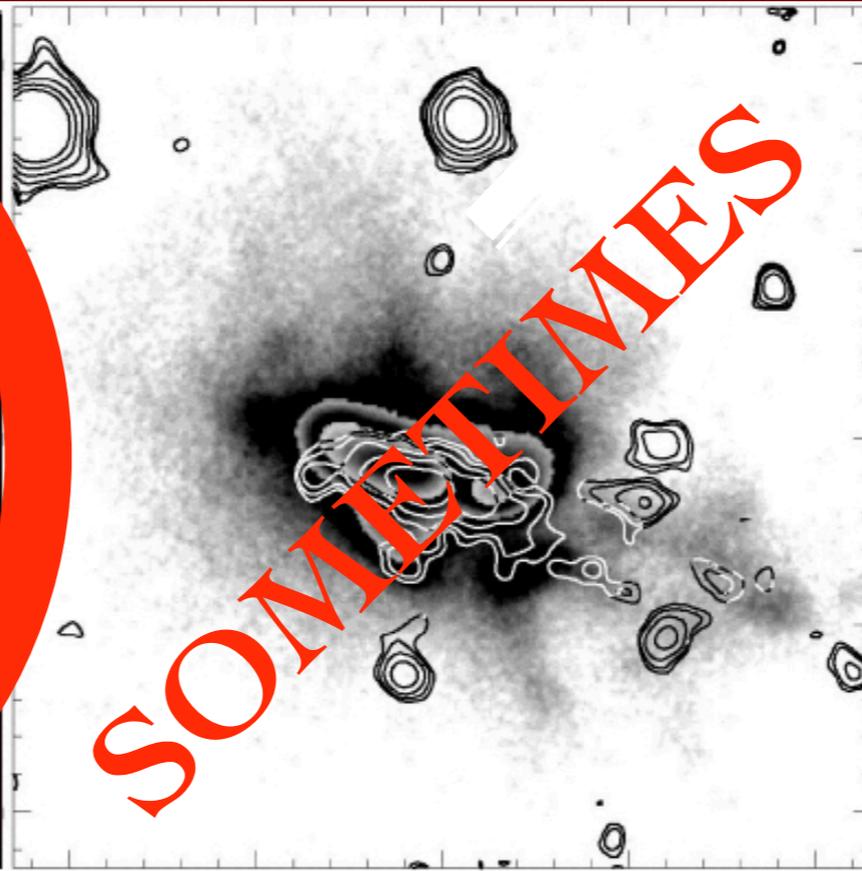


Gas Velocity [km/s]

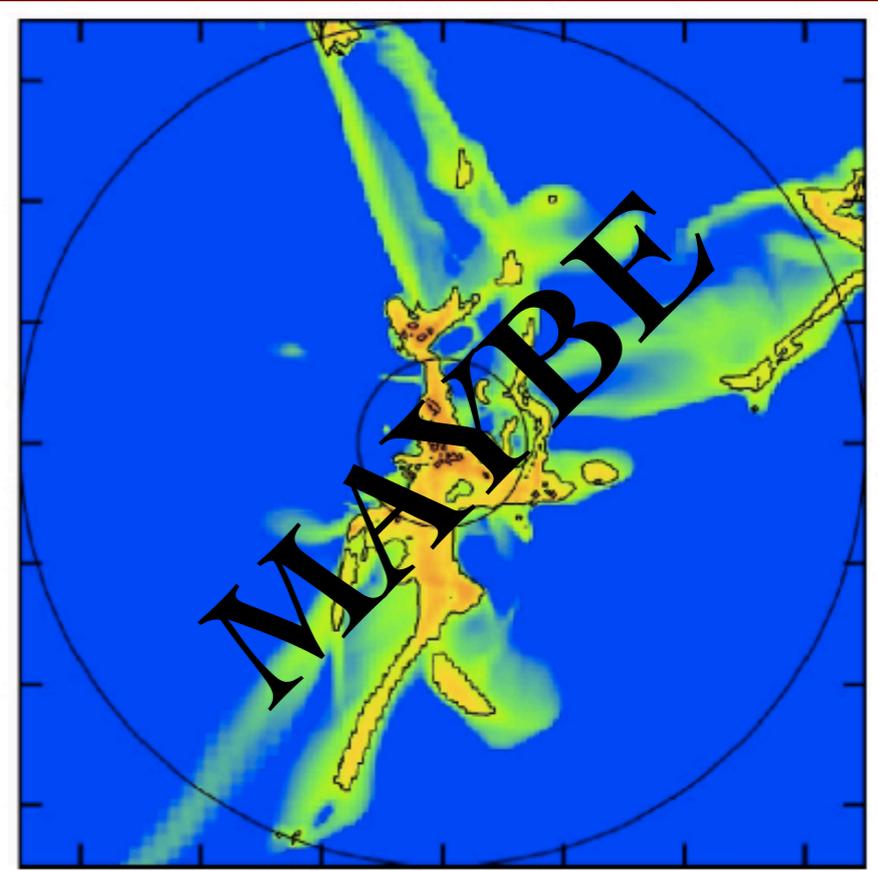
What Powers Them?



Galactic wind in M82



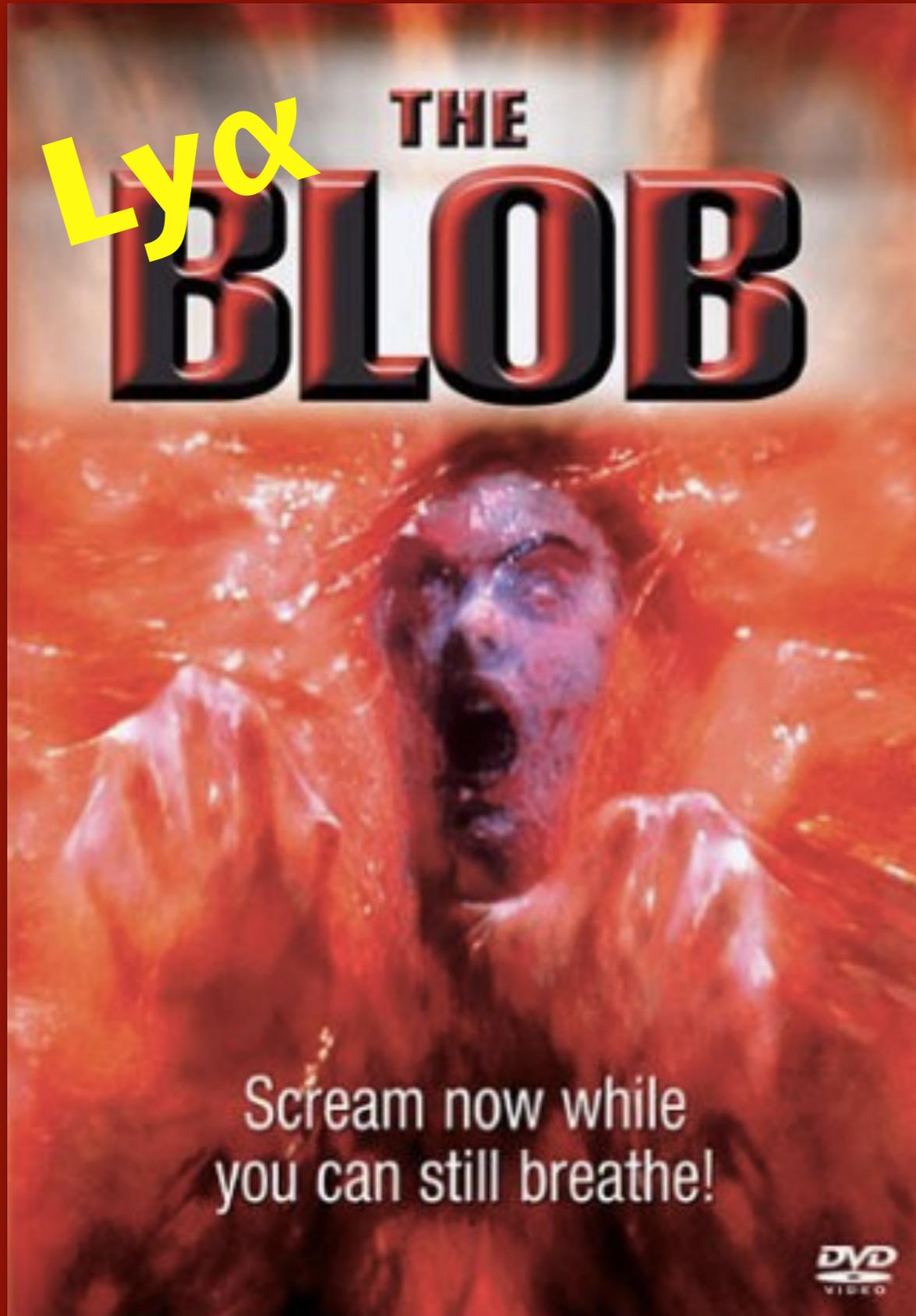
High-z radio galaxy
(Reuland+03)
(e.g Miley & De Breuck 08)



Cold accretion/stream
(Goerdt+10)

- not superwinds
- some resonant scattering from central source
- evidence for infall?

Conclusions: Don't Fear the Blobs



- proto-cluster identification
- structure evolution tracers

intracluster medium

massive cluster galaxies

oldest stellar populations

black holes

- power source(s) narrowed

stay tuned...