

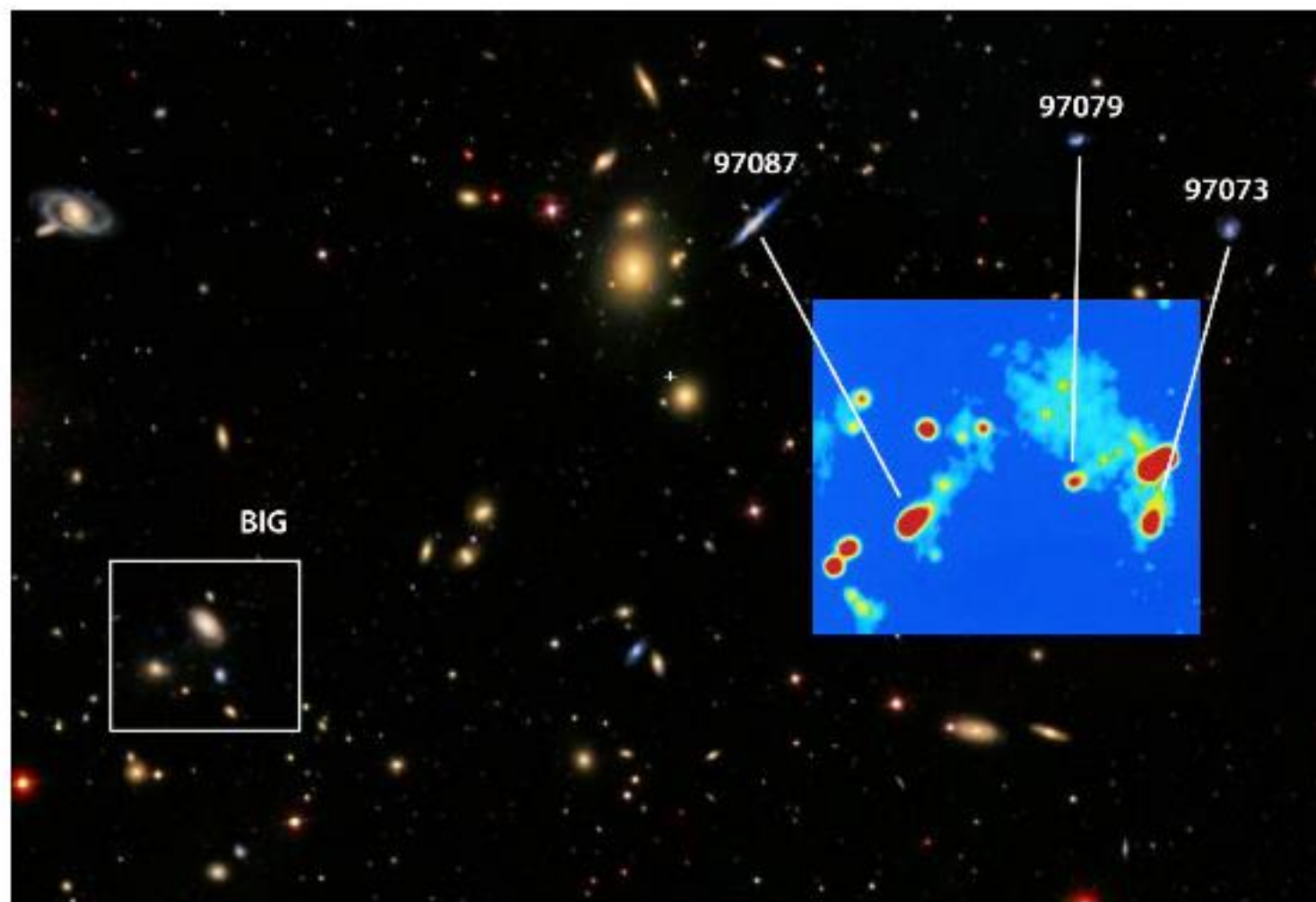
TURBULENT CLUSTERS UNDER THE MUSE LENS: THE CASE OF A-1367

Giuseppe Gavazzi

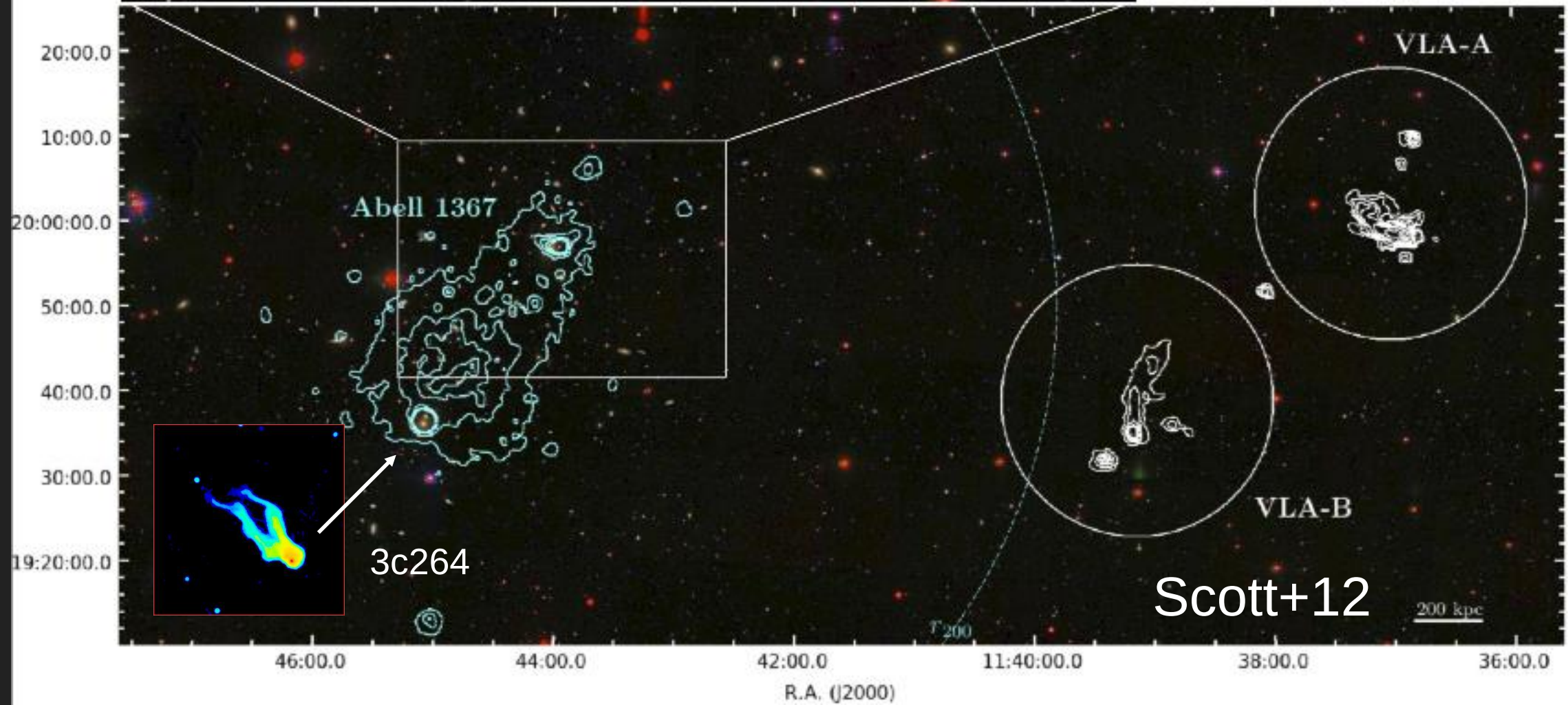
Università degli Studi di Milano-Bicocca

in Collaboration with:

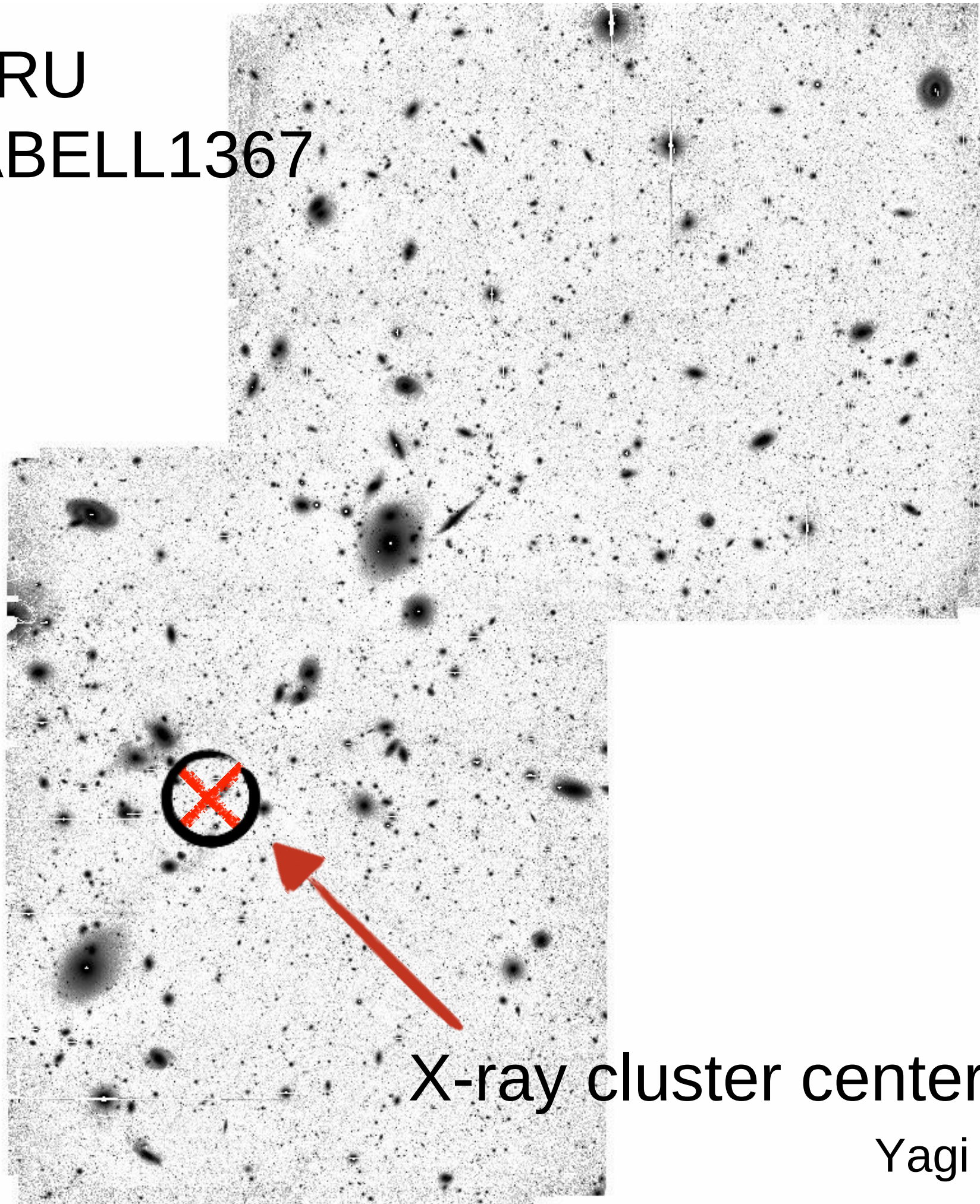
G. Consolandi, M. Fossati, M. Fumagalli, A. Boselli, M. Yagi, M. Yoshida



Gavazzi&Jaffe+85
reported extended
radio tails
in LTGs infalling
into A1367



THE SUBARU VIEW OF ABELL1367



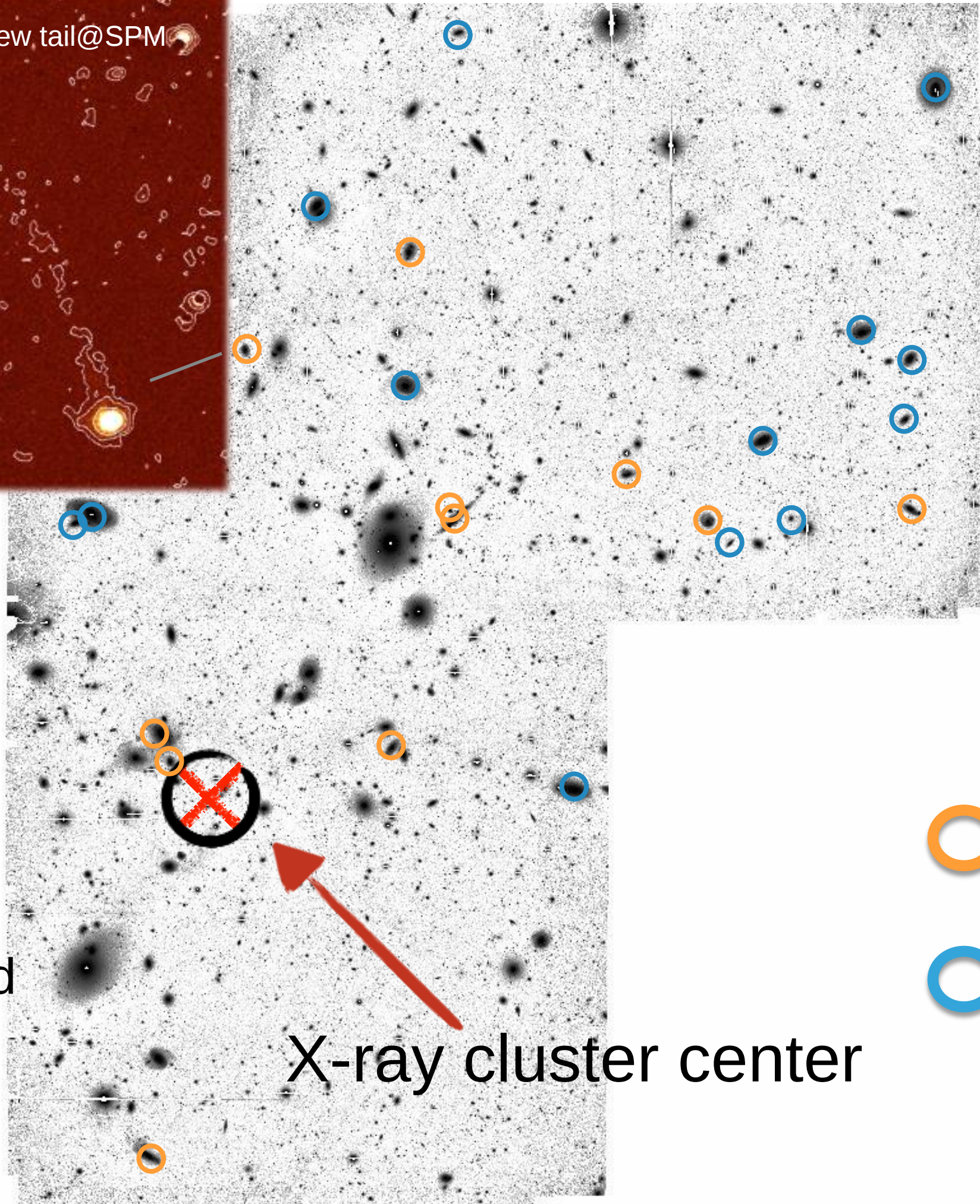
2 fields
3h exptime
1 sq deg

X-ray cluster center

Yagi et al. (2017)

new tail@SPM

27/64 (~40%)
of LTGs
observed in
Coma
(Yagi+10) and
A1367
(Yagi+17)
show extended
tails of ionized
gas.



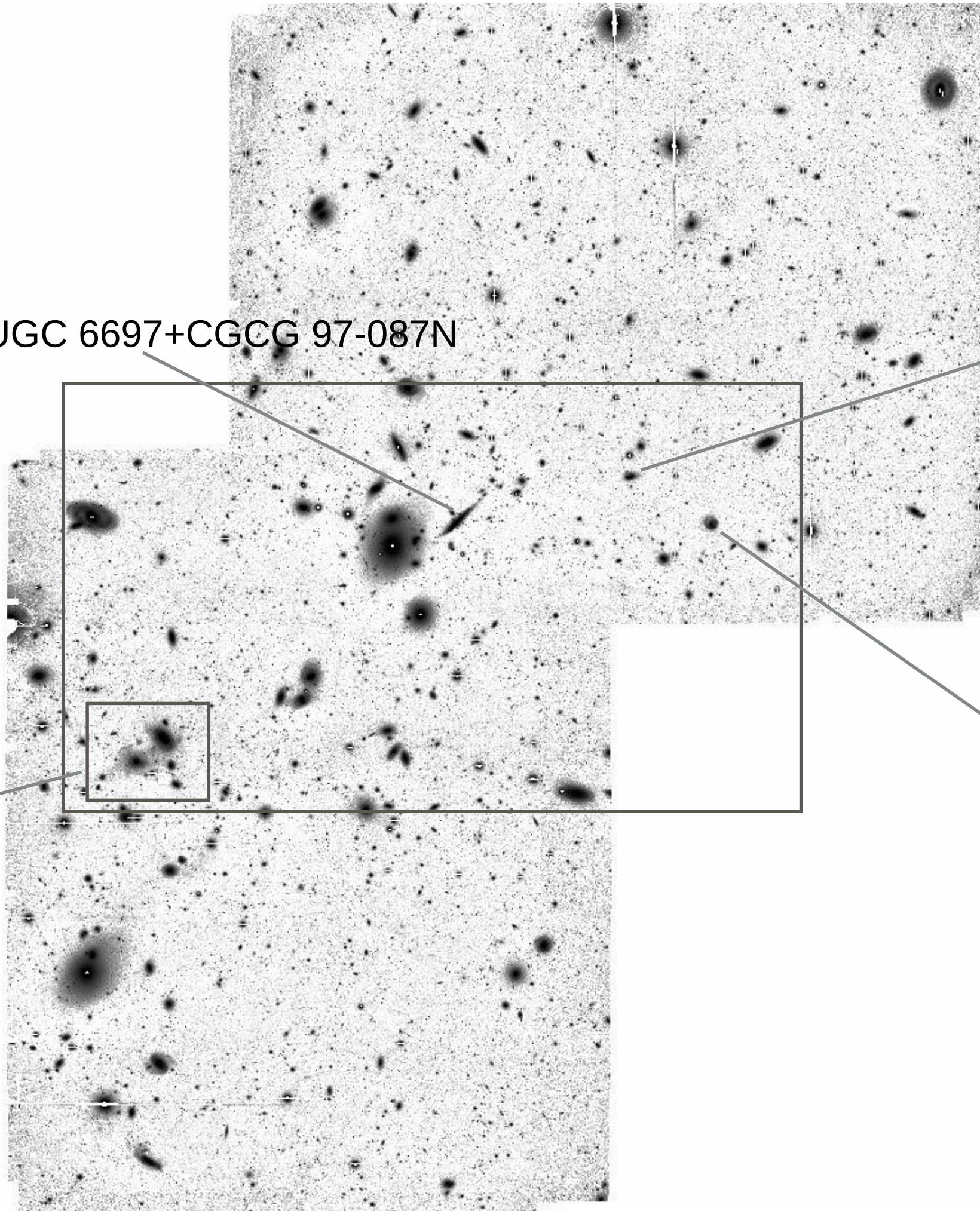
○ cometary
○ no
cometary

UGC 6697+CGCG 97-087N

CGCG 97-079

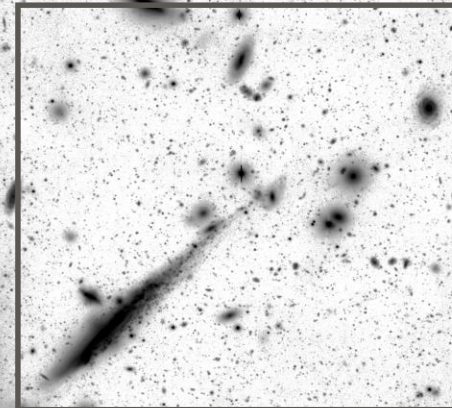
BIG

CGCG 97-073

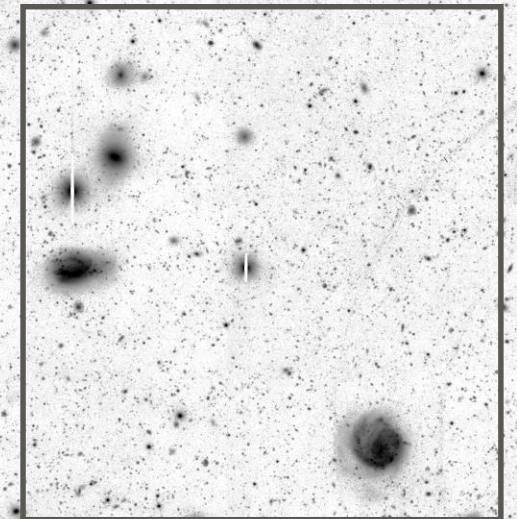


CGCG 97-073+

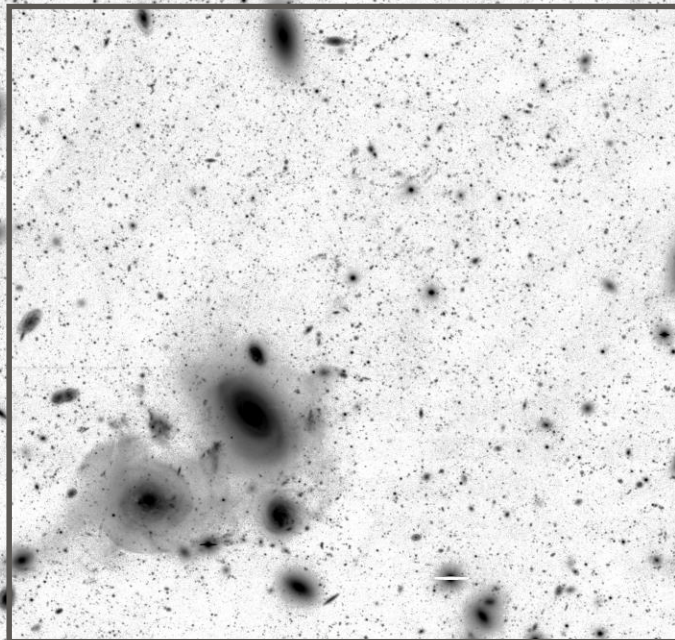
CGCG 97-079

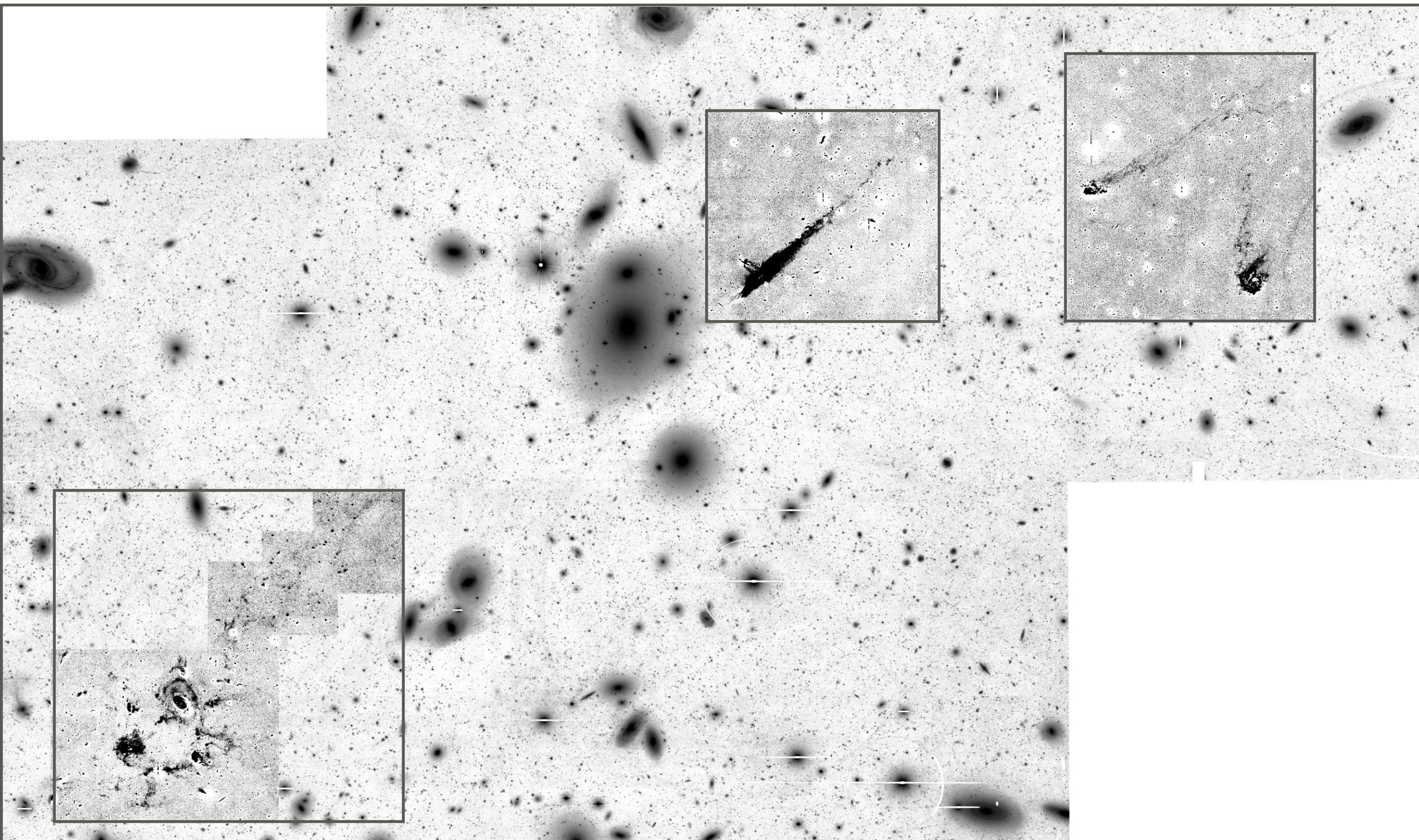


UGC 6697+97087N

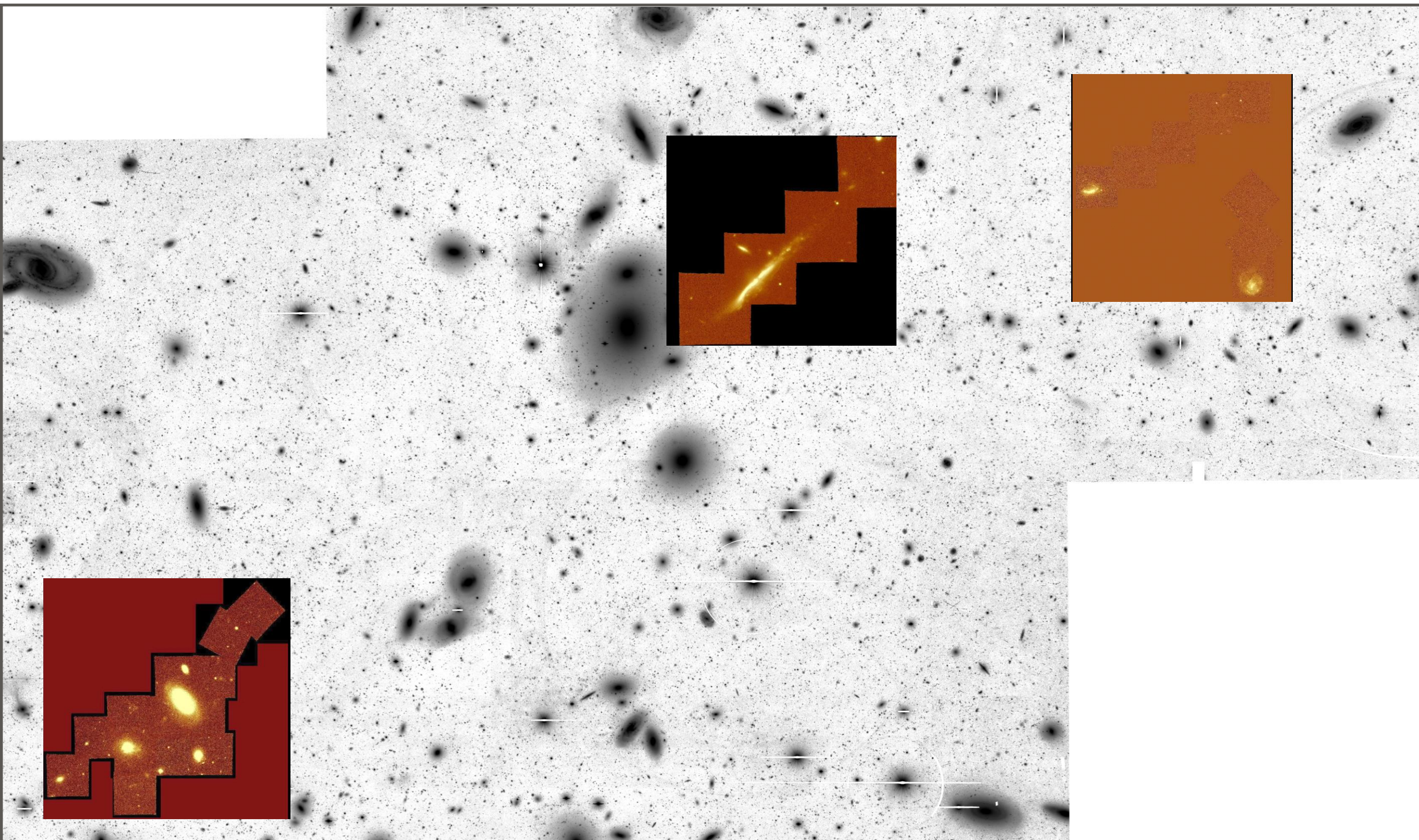


BIG





MUSE sneaks a peek at Abell 1367



$\text{CZ}(\text{A1367}) \sim 6596 \text{ km/s}$

$\sim 100 \text{ kpc}$

CGCG 97-079

$\log(M^*) \sim 9.3$

$M_\odot$

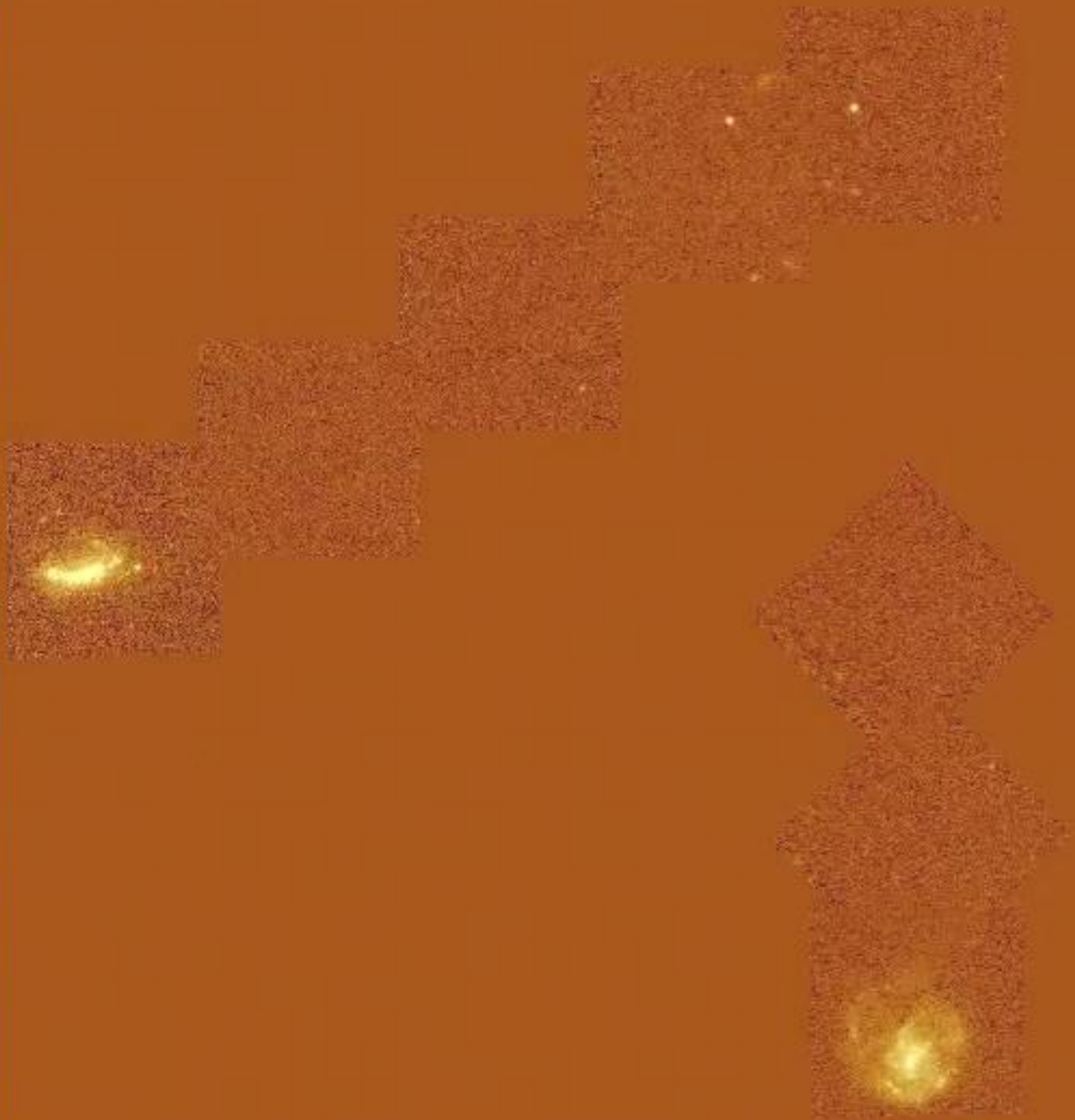
$\text{cz} \sim 7025 \text{ km/s}$

CGCG 97-073

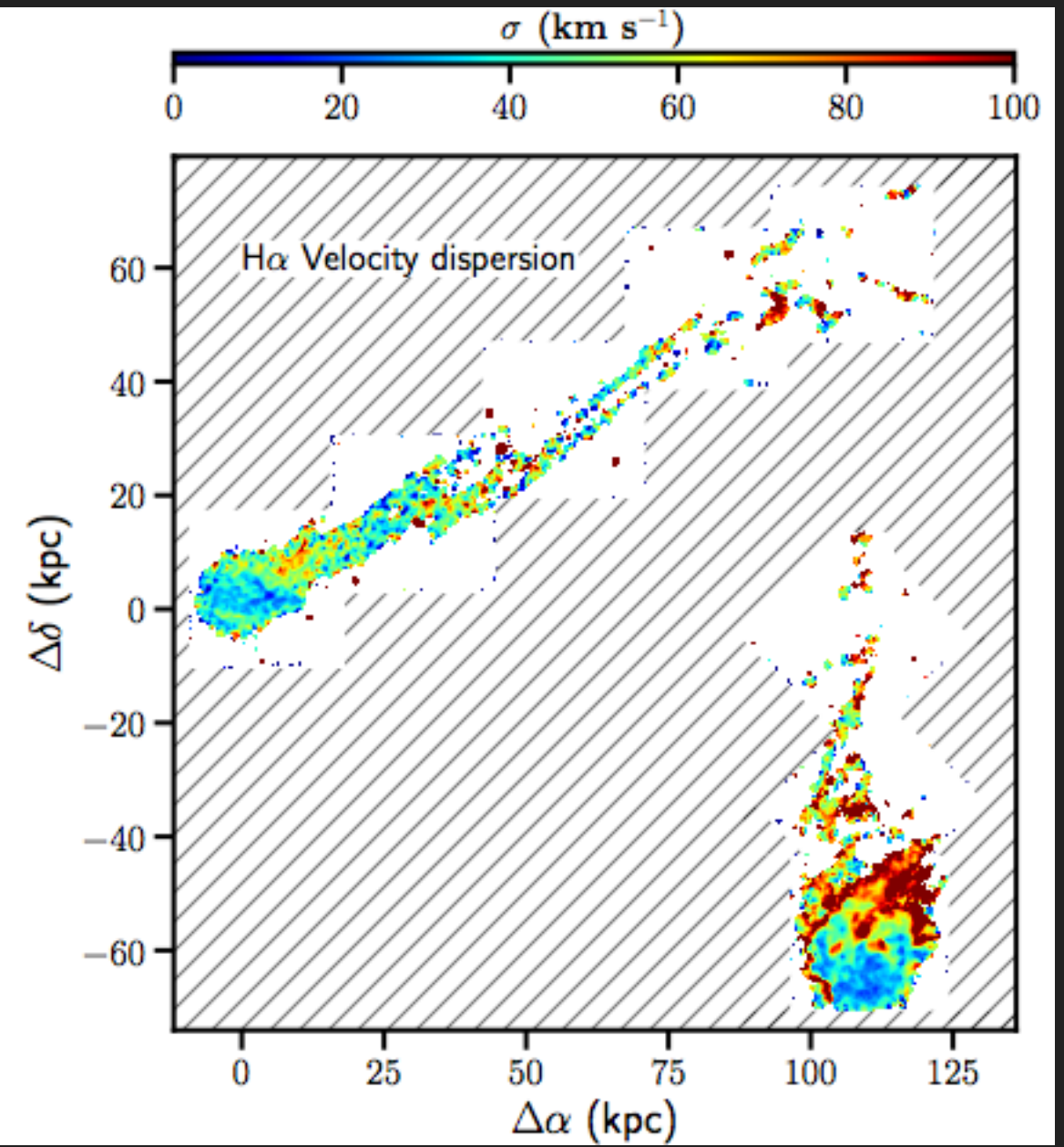
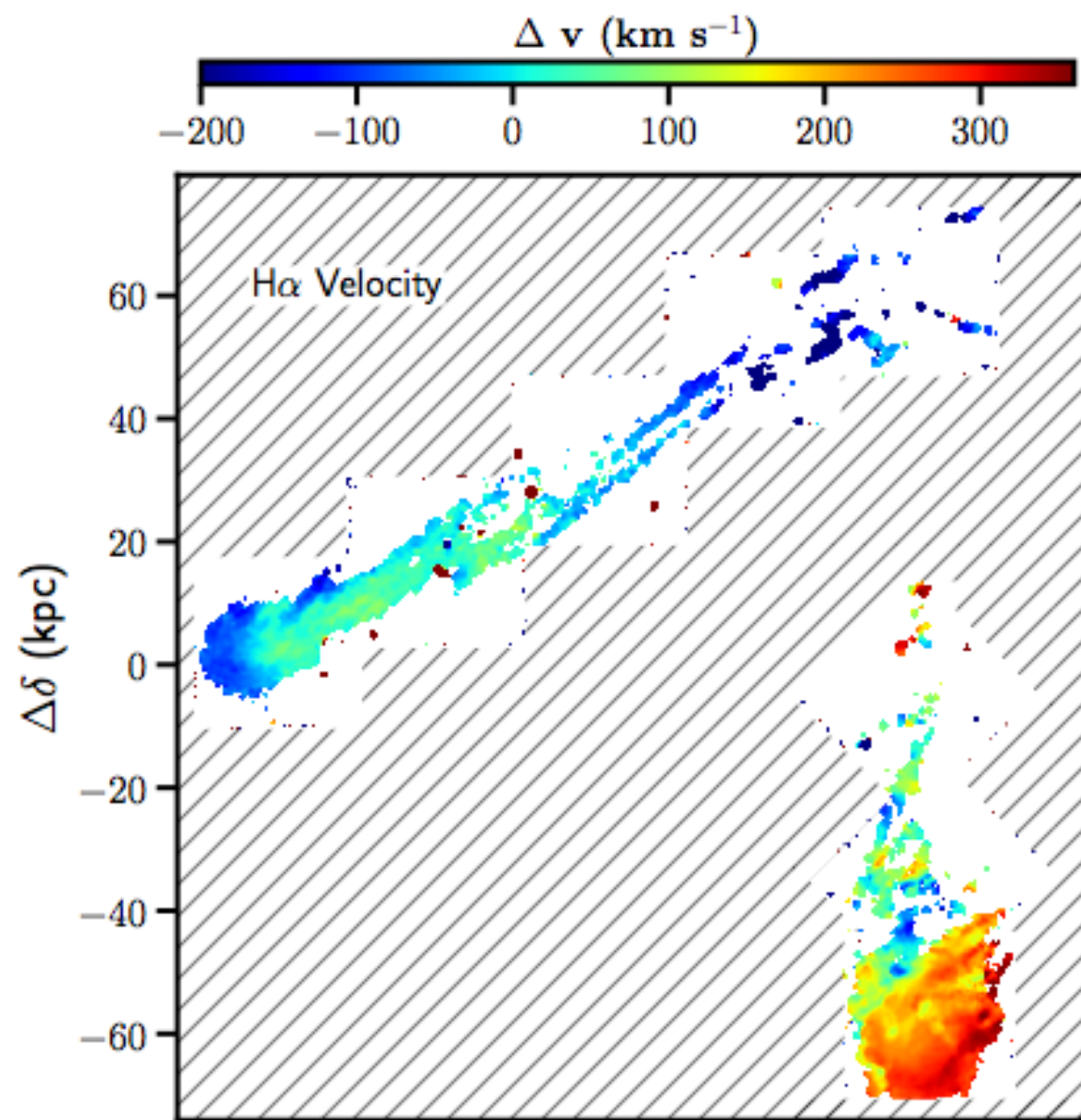
$\log(M^*) \sim 9.5 M_\odot$

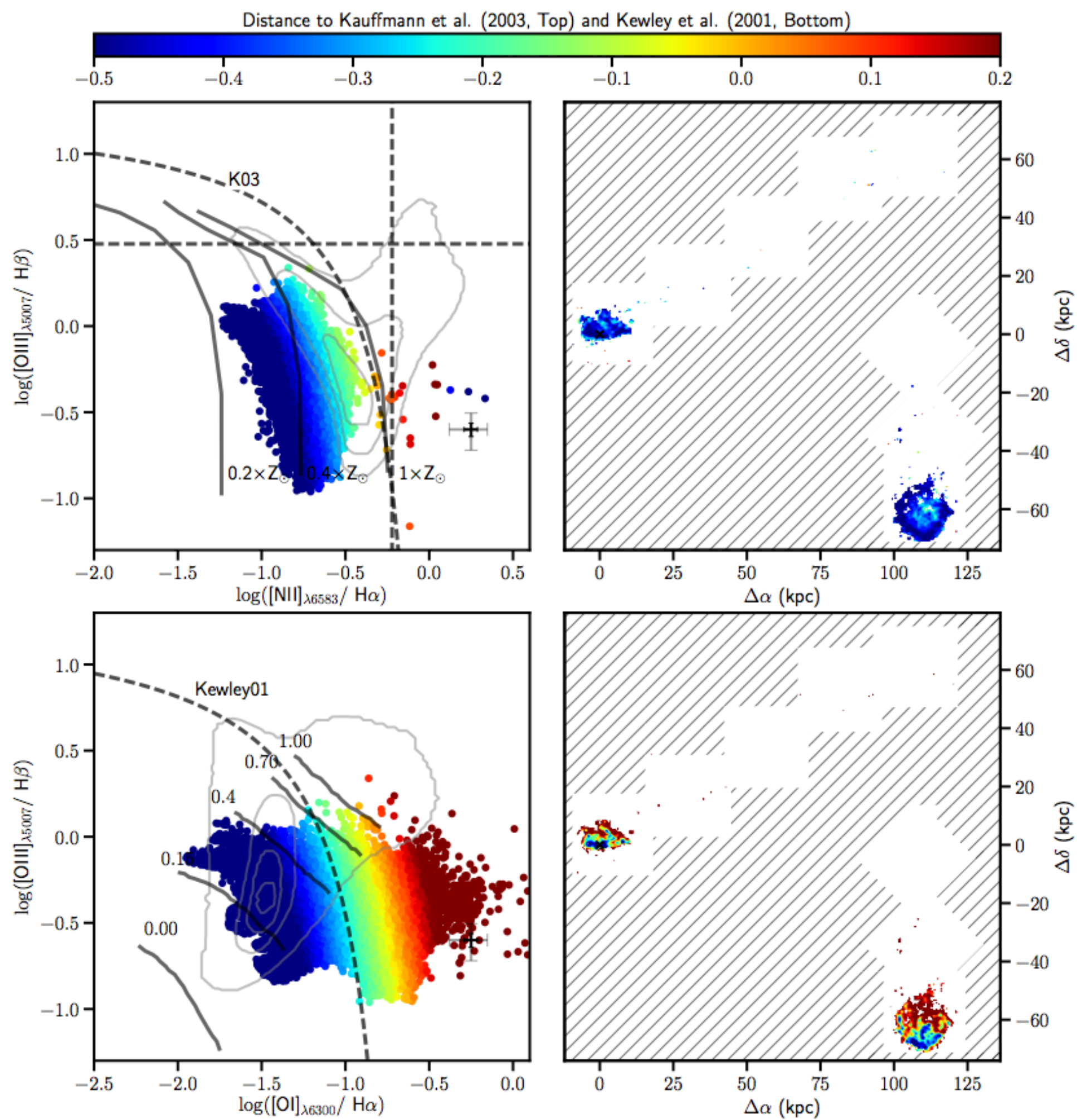
$\text{cz} \sim 7297 \text{ km/s}$

mapped with 8 MUSE pointings



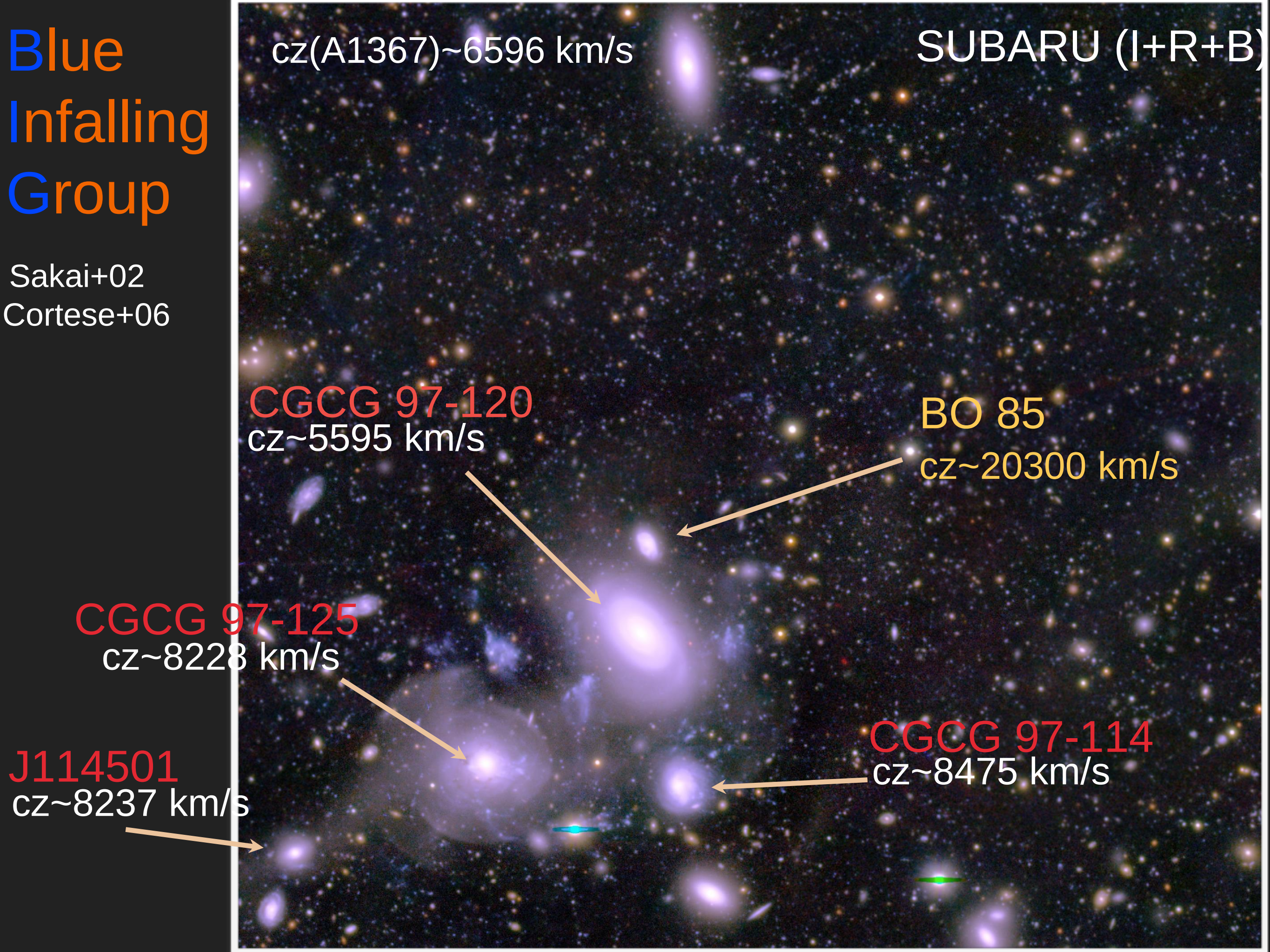
0~7025 km/s





Blue Infalling Group

Sakai+02
Cortese+06

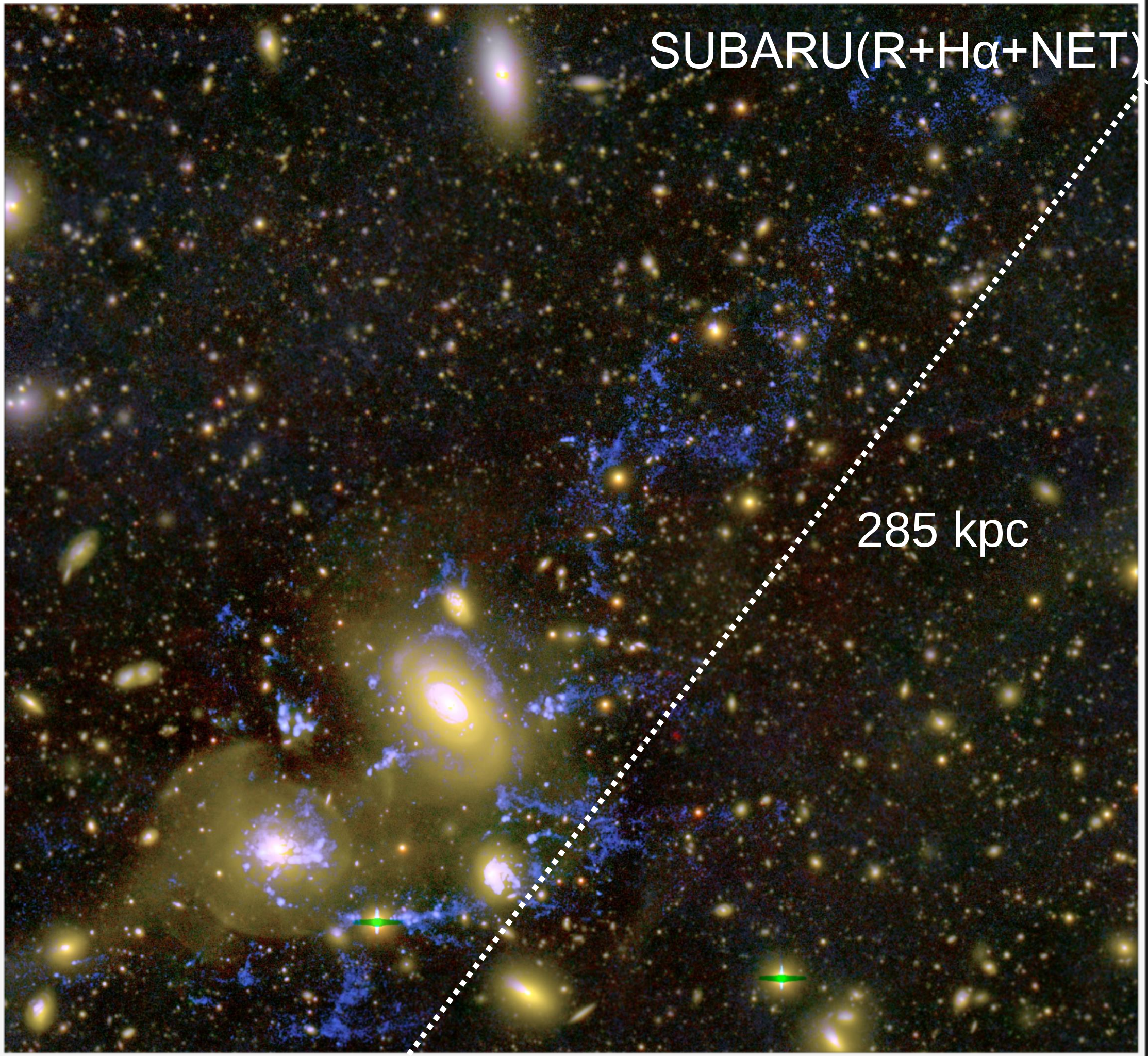


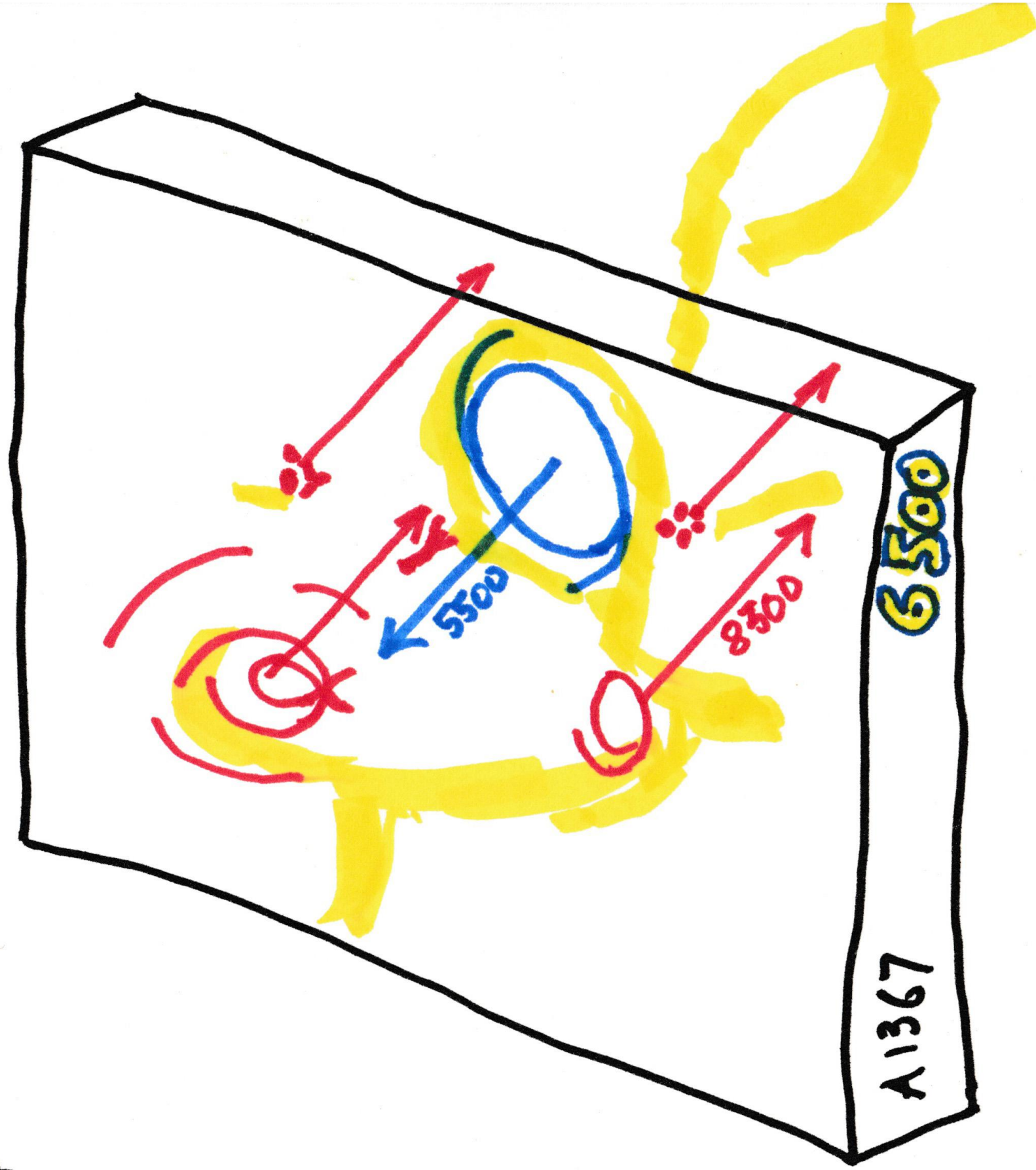
Blue
Infalling
Group

SUBARU(R+H α +NET)

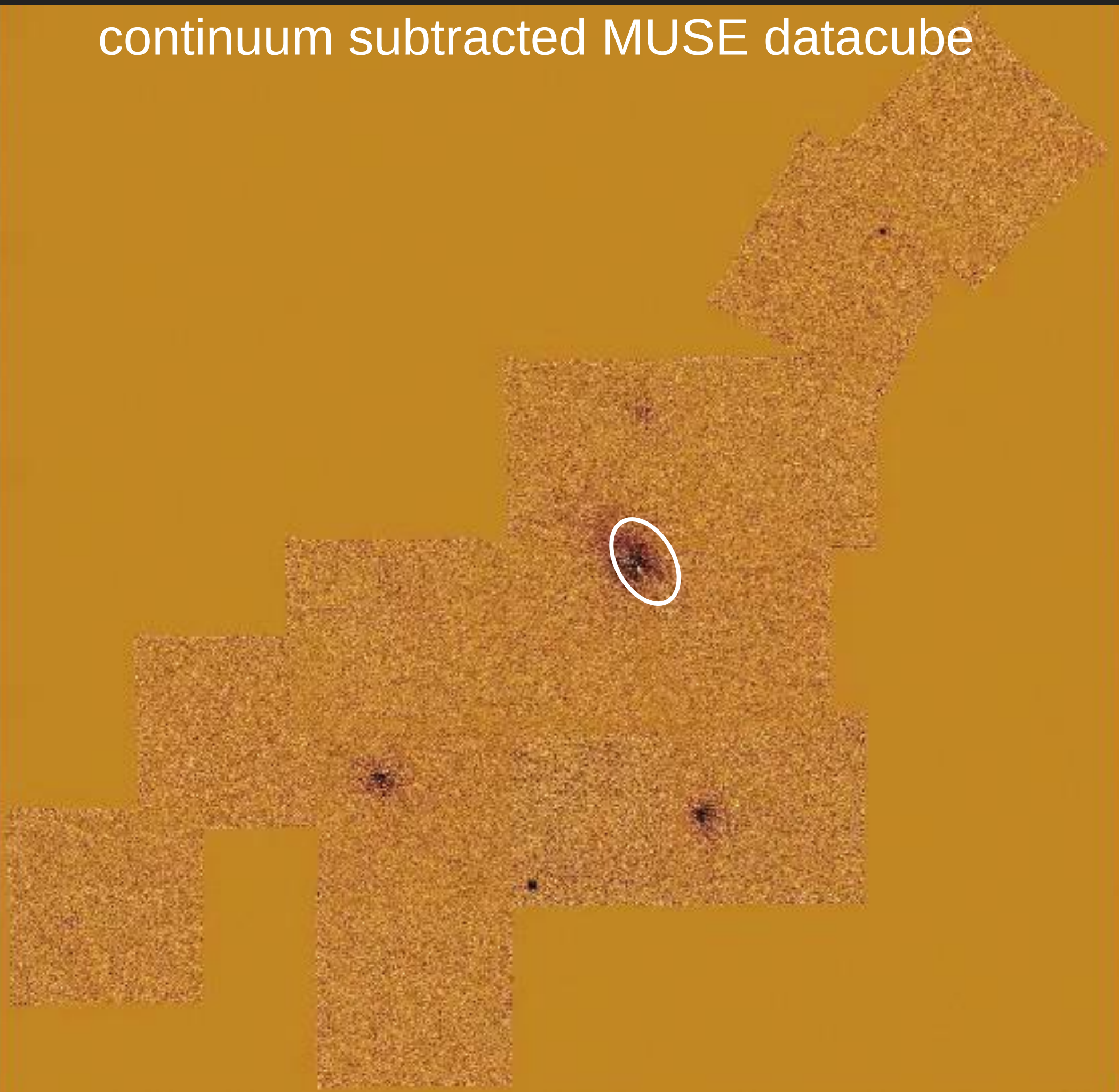
285 kpc

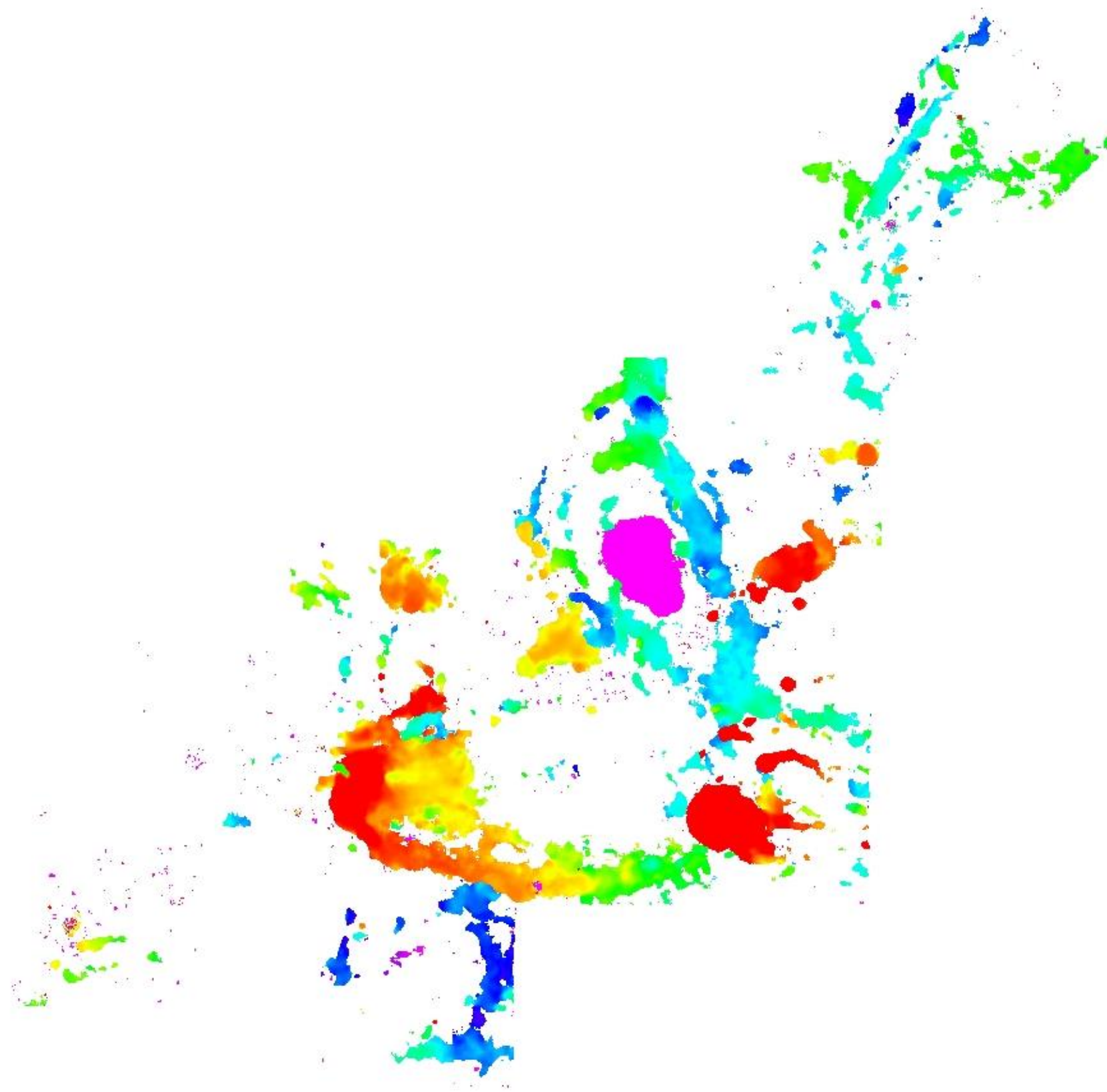
Yagi+17



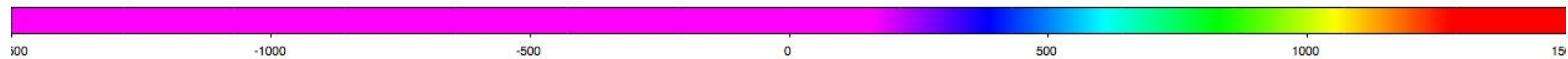


continuum subtracted MUSE datacube

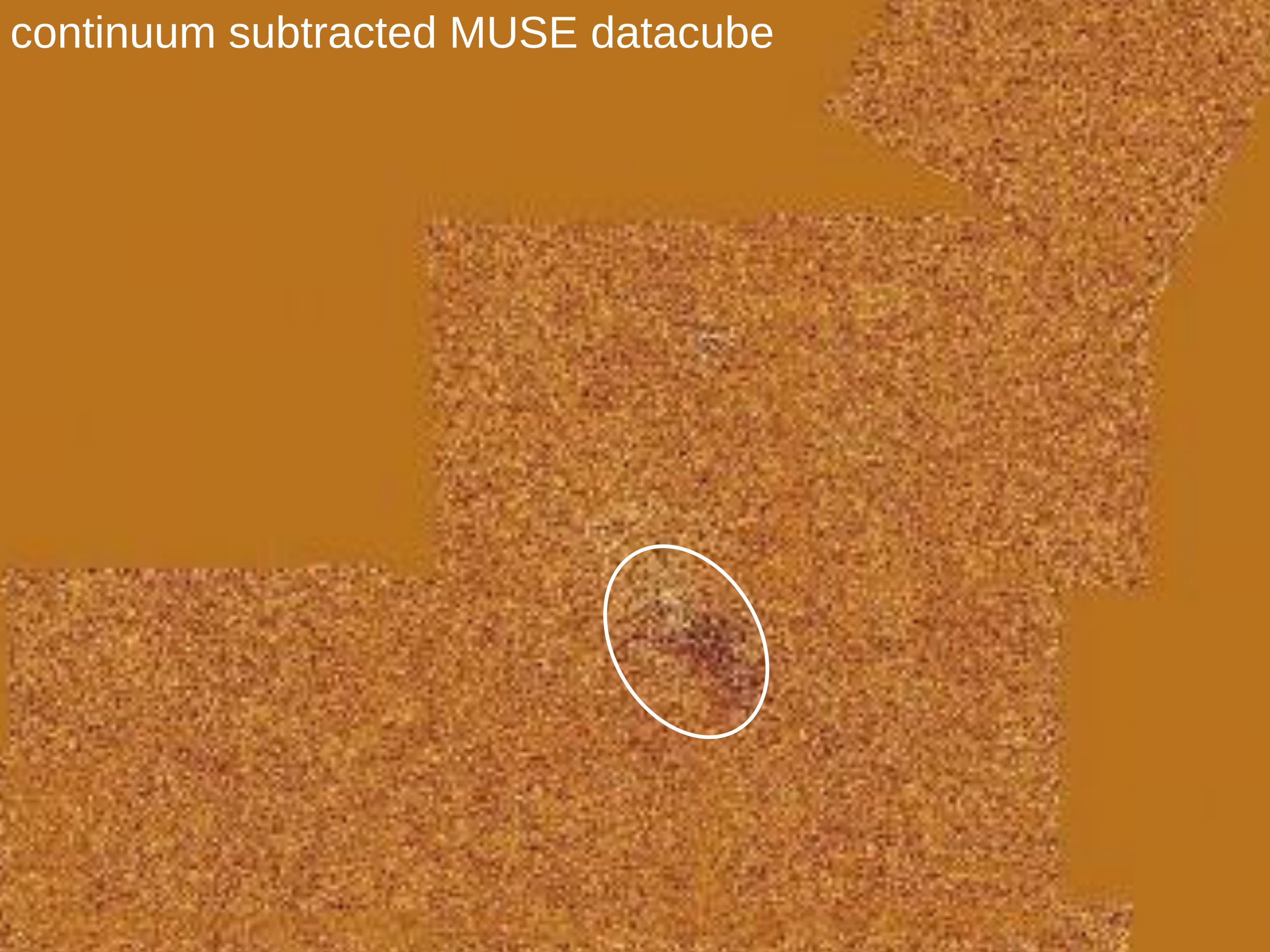




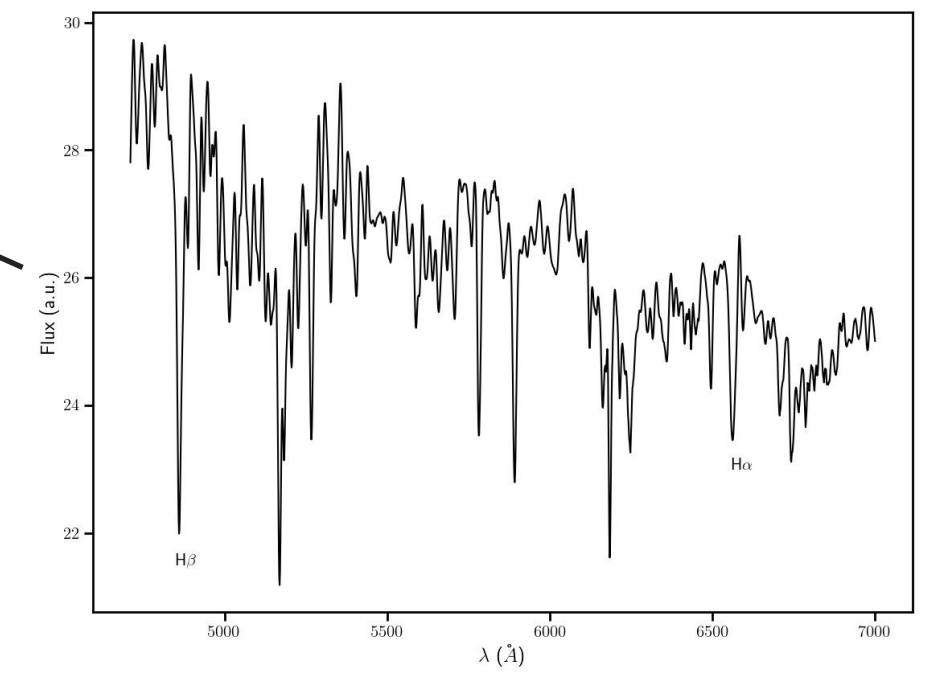
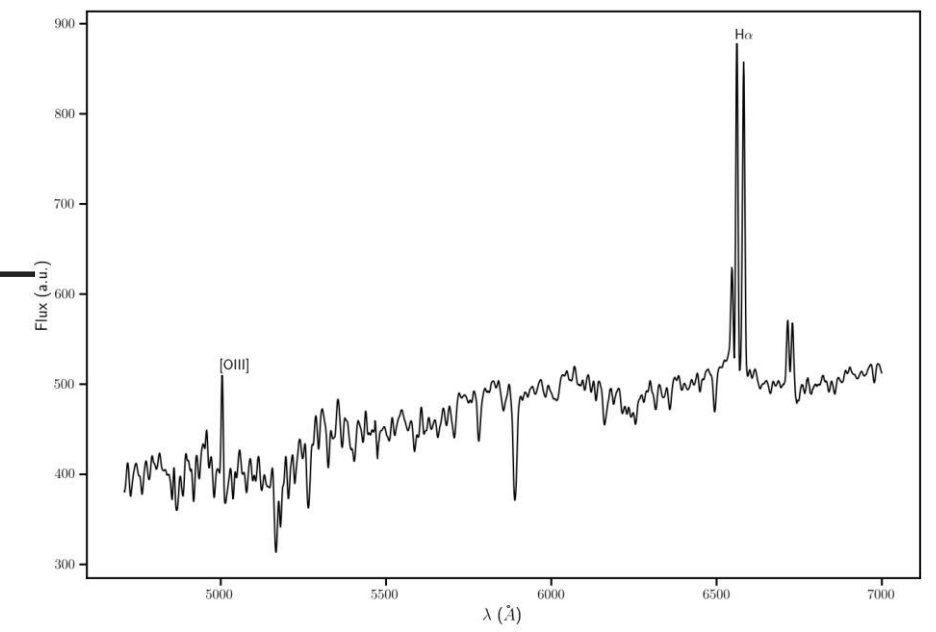
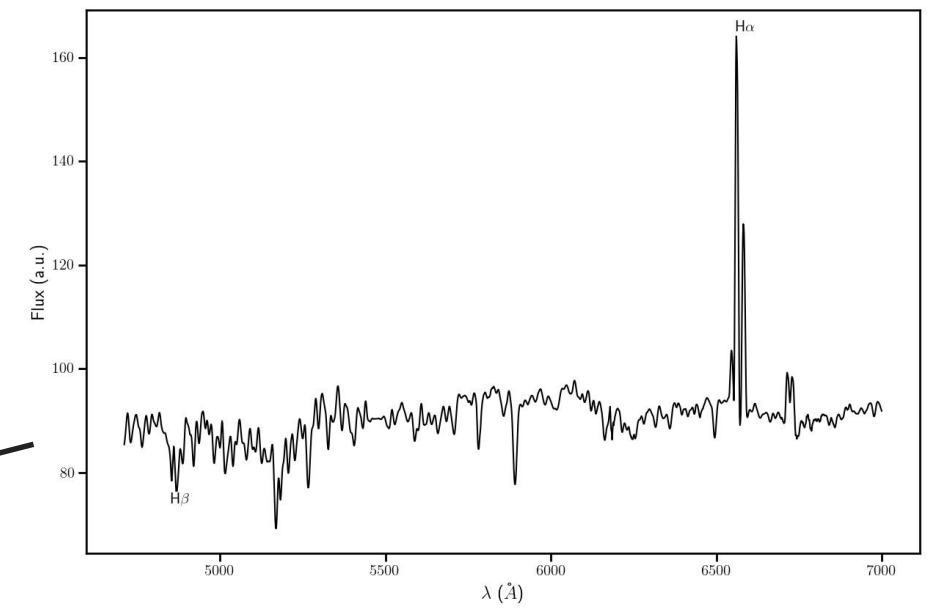
0=7035 km/s



continuum subtracted MUSE datacube



97-120



CLUSTERS UNDER THE MUSE LENS



Take home message:

A mix of environmental processes affects ~50% of LTGs currently infalling in the A1367 cluster. MUSE gives us a (preliminary) privileged view of the complex physics at play in the cluster.

Thank you for your attention!