

7 years in Chile

NO!

The Accomplishments and Goals
of Czech Astronomers at ESO

2 years in the Jungle

A large radio telescope dish is being lowered by a crane at the Arecibo Observatory. The dish is suspended by a complex network of cables and steel beams. The background shows a blue sky with white clouds and a forested hillside.

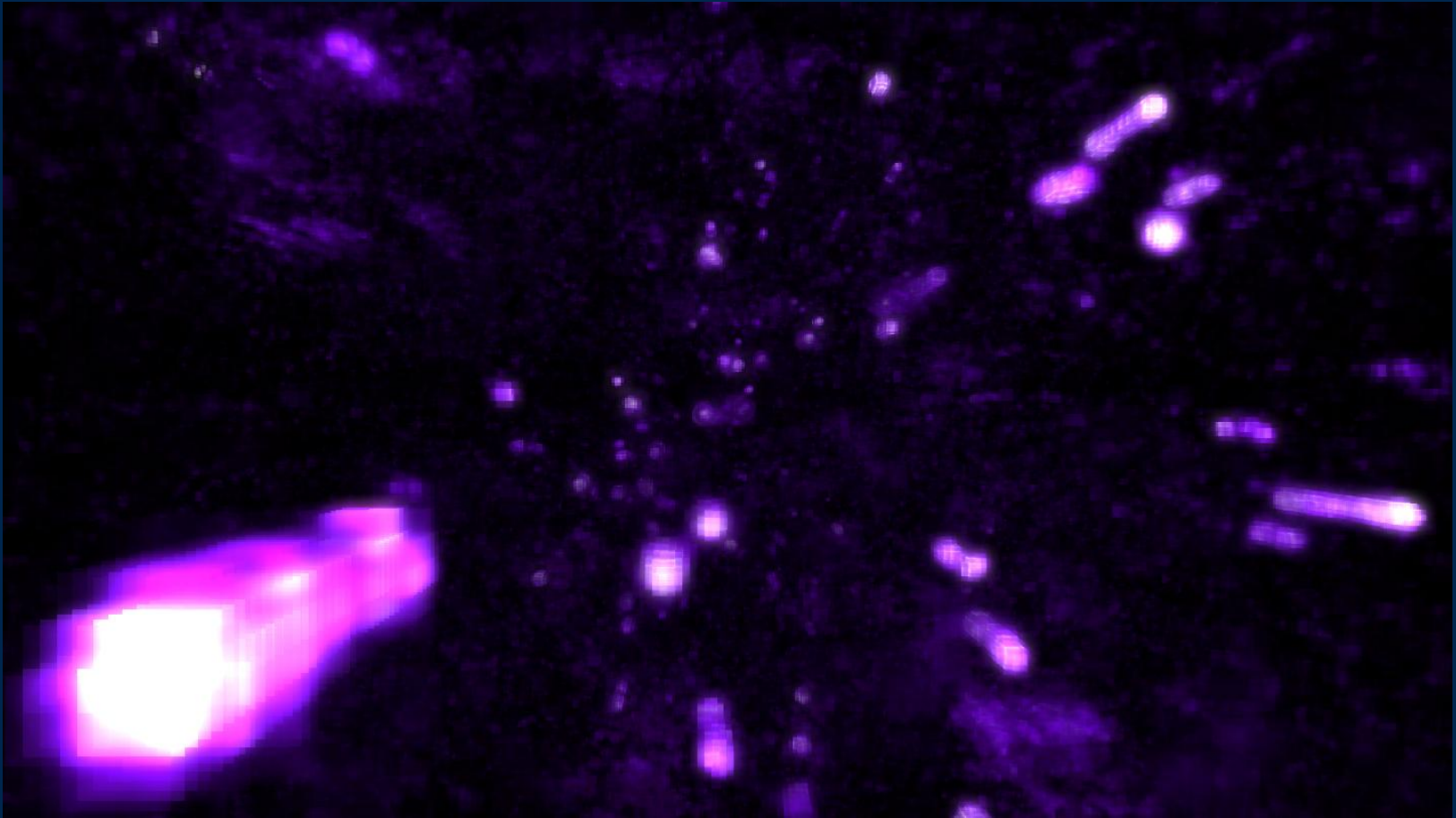
The Accomplishments and Goals of
a Welsh Astronomer at Arecibo



The Arecibo Galaxy Environment Survey



Rhys Taylor



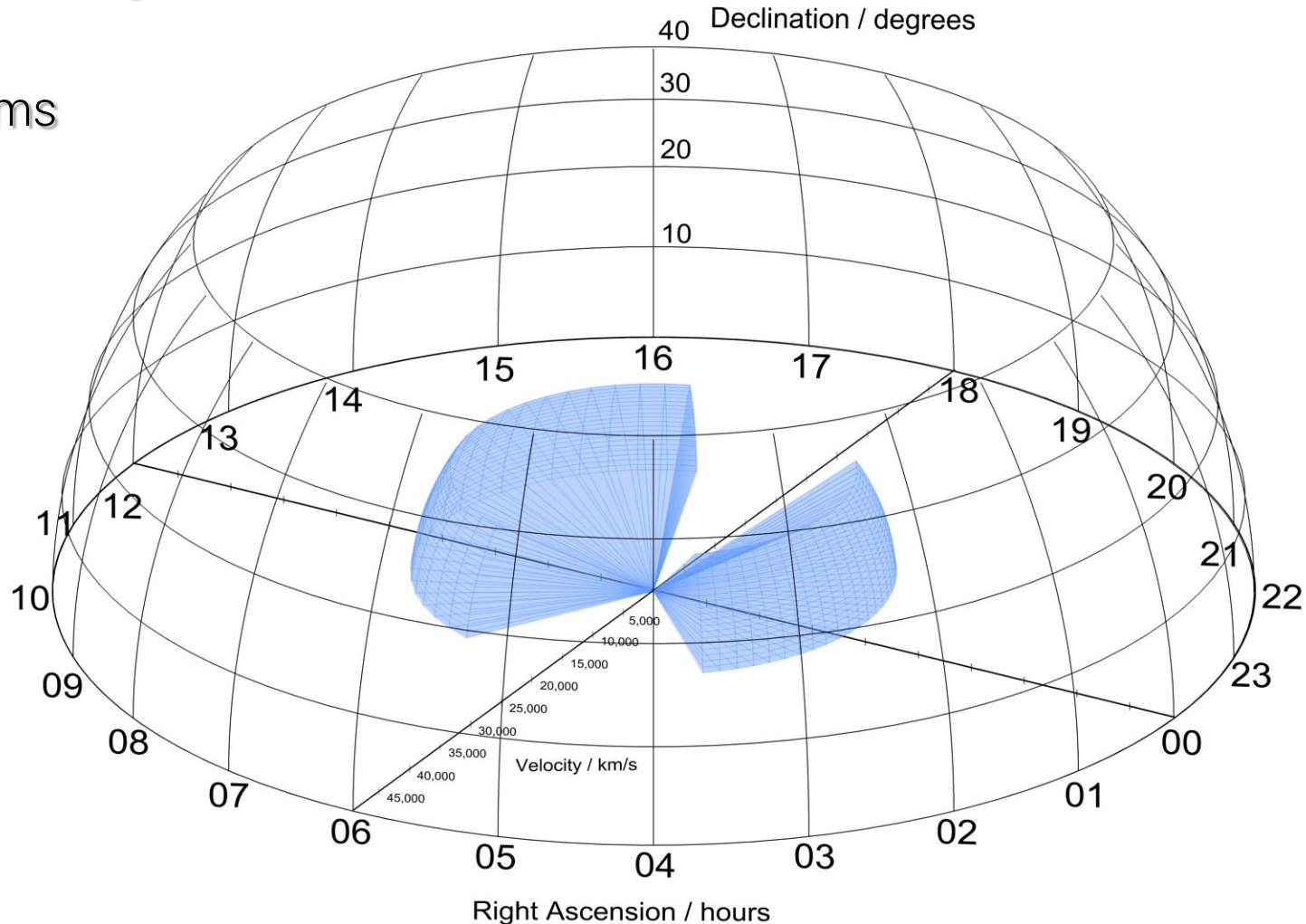
Science with an expensive paperweight

HI Surveys at Arecibo – I. ALFALFA

7000 square degrees

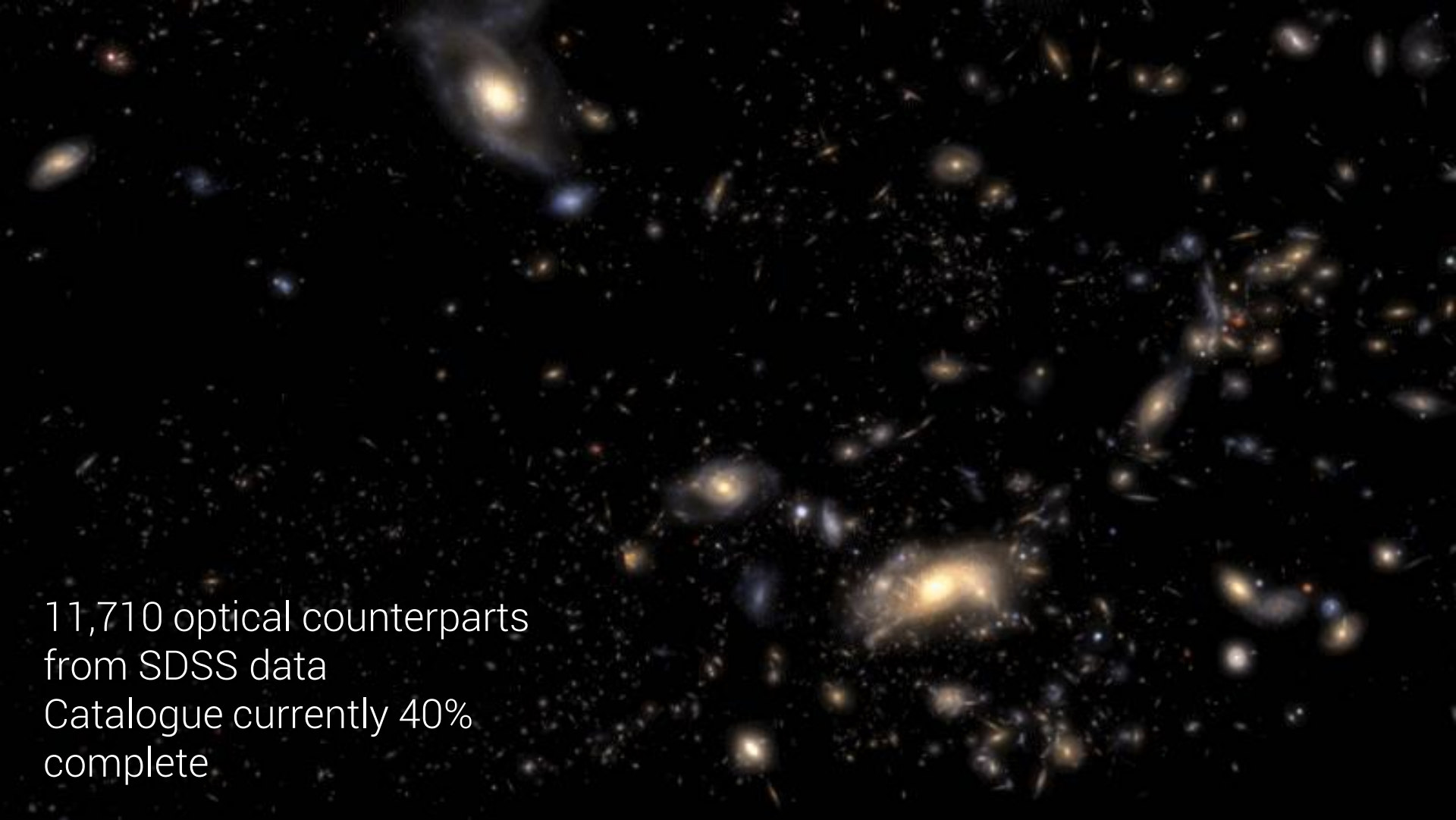
$z < 0.06$

2.2 mJy rms



HI Surveys at Arecibo – I. ALFALFA

11,710 optical counterparts
from SDSS data
Catalogue currently 40%
complete

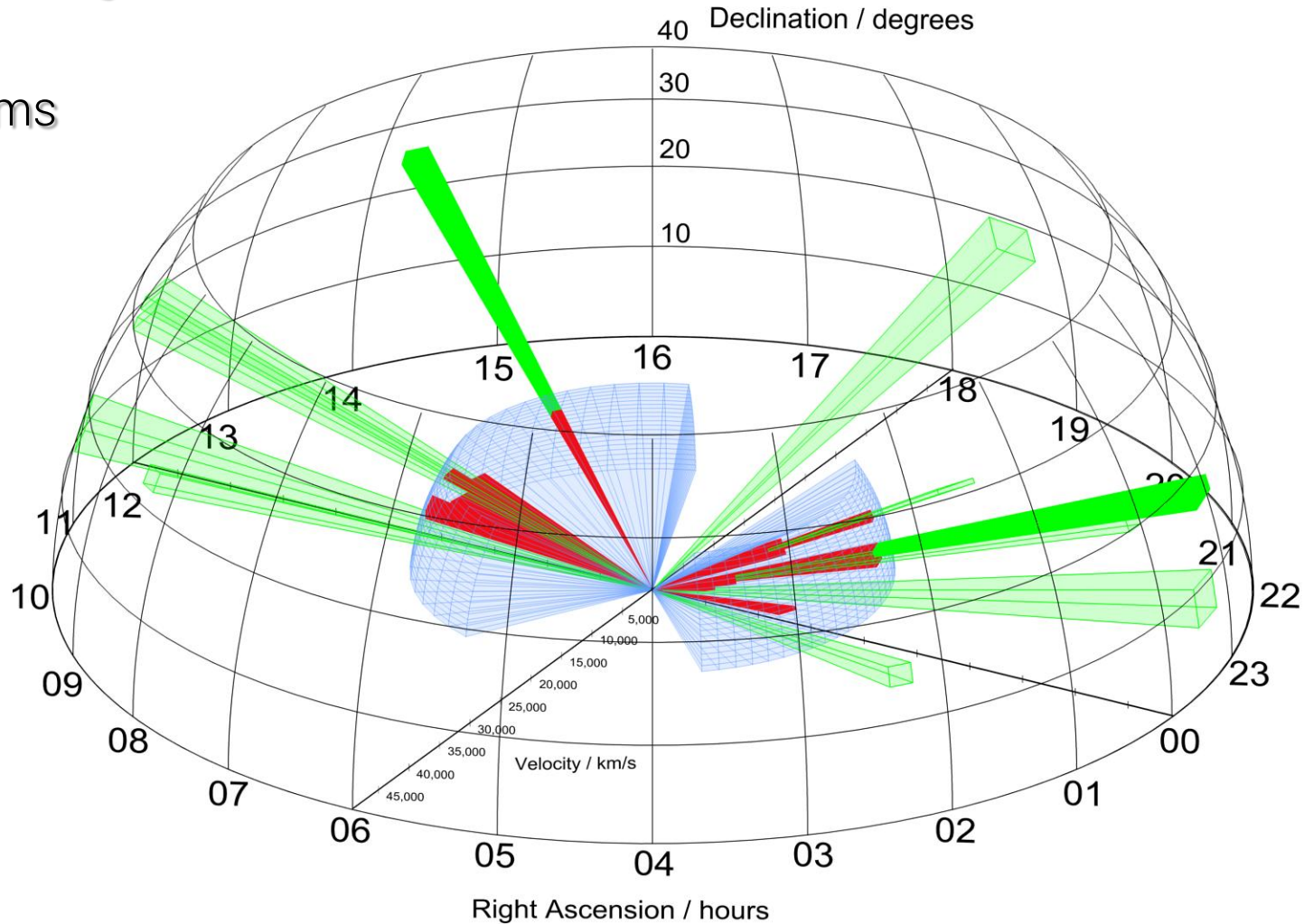


HI Surveys at Arecibo – II. AGES

200 square degrees

$z < 0.16$

0.6 mJy rms

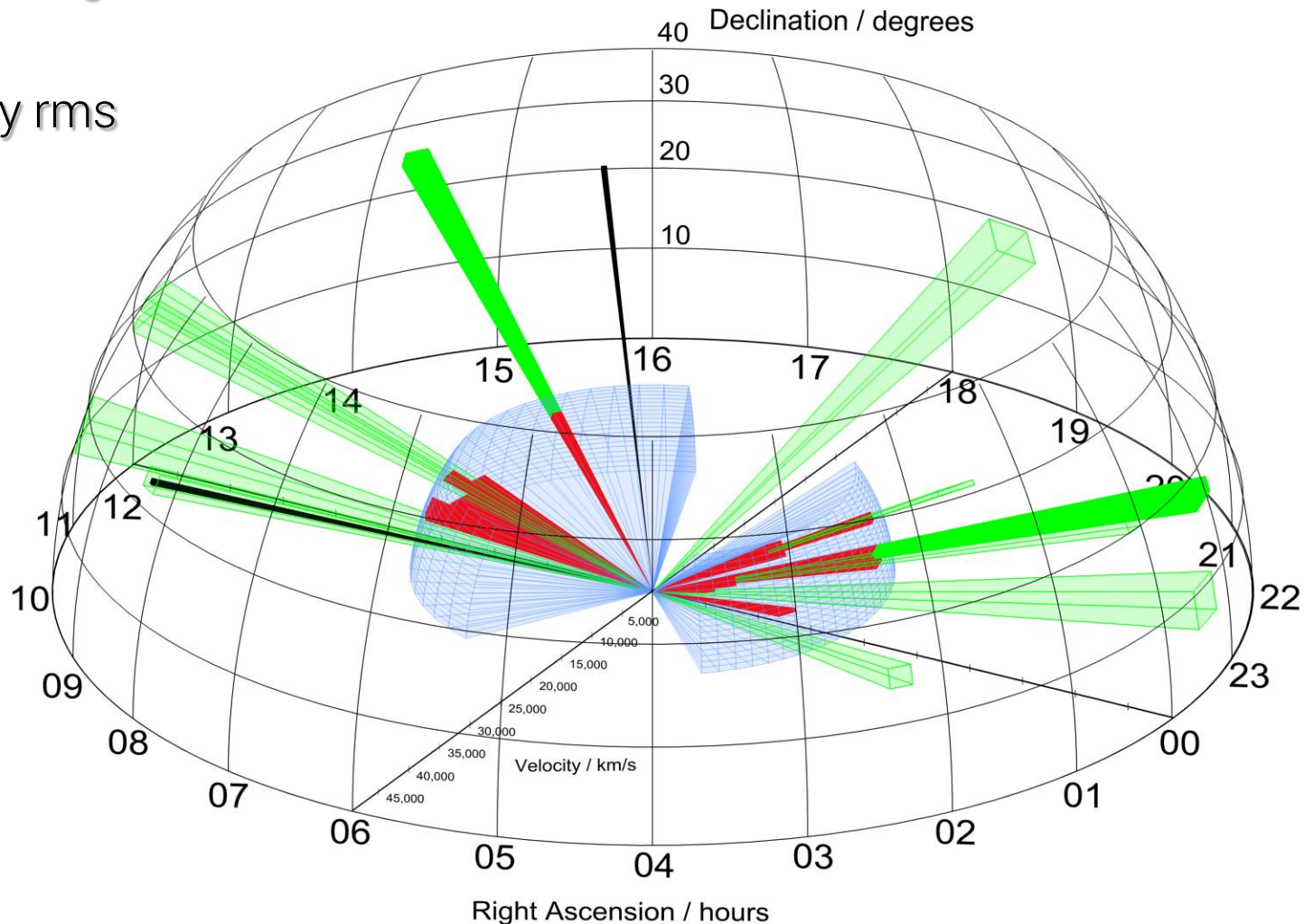


HI Surveys at Arecibo – III. AUDS

0.3 square degrees

$z < 0.16$

~ 0.05 mJy rms



Science with AGES I : Isolated Galaxies

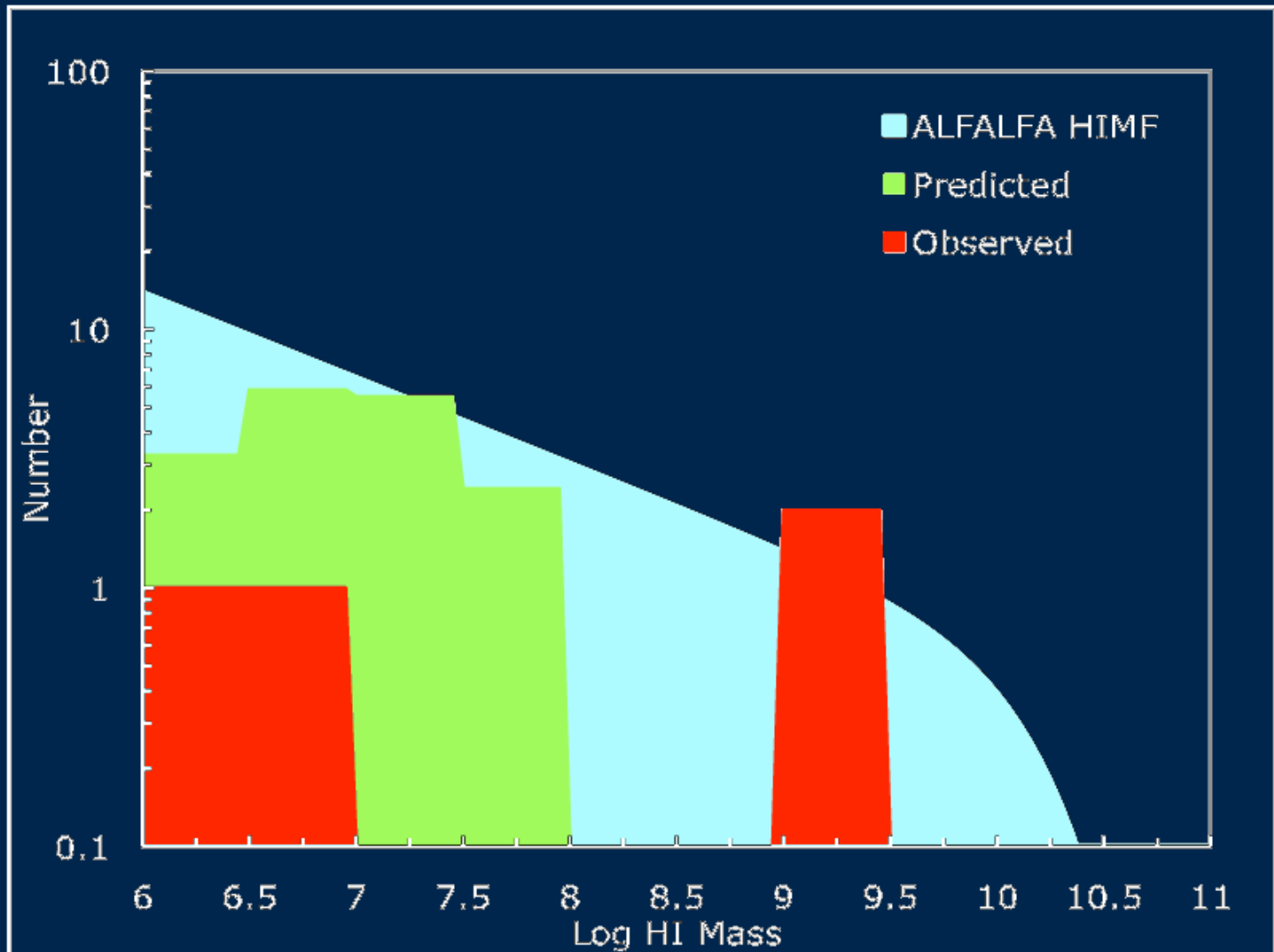


NGC 1156

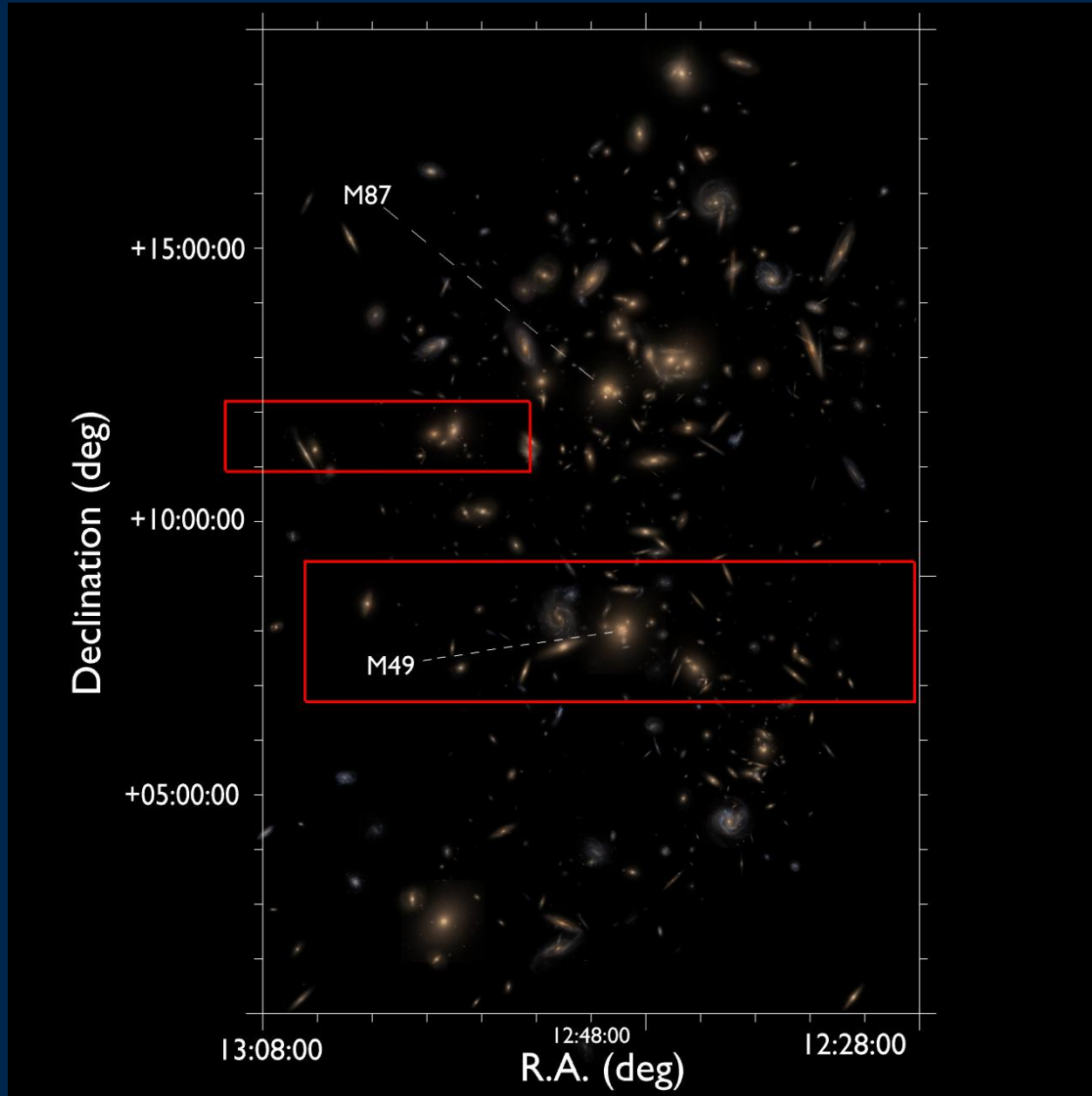
UGC 2082

NGC 5523

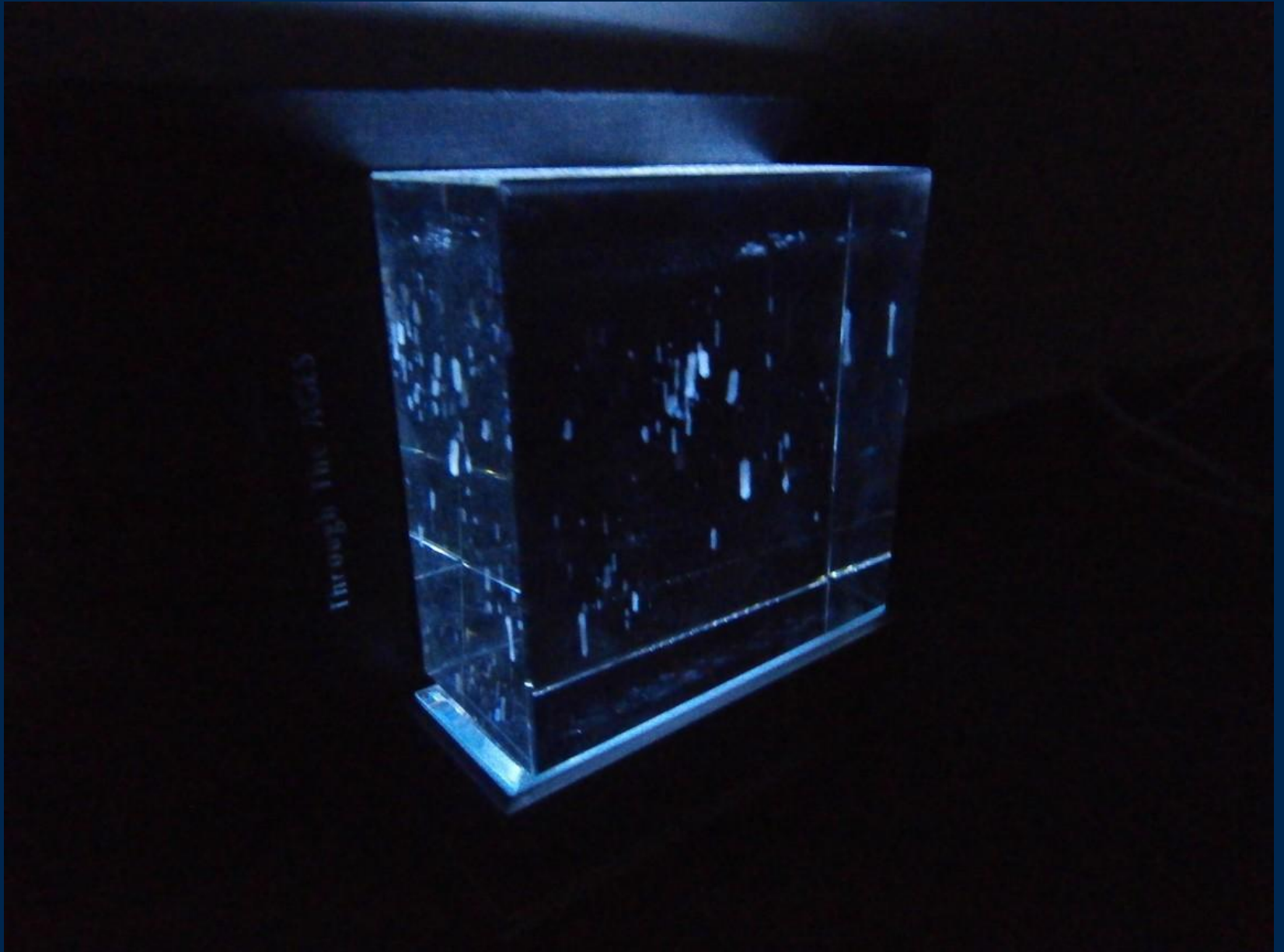
Science with AGES I : Isolated Galaxies



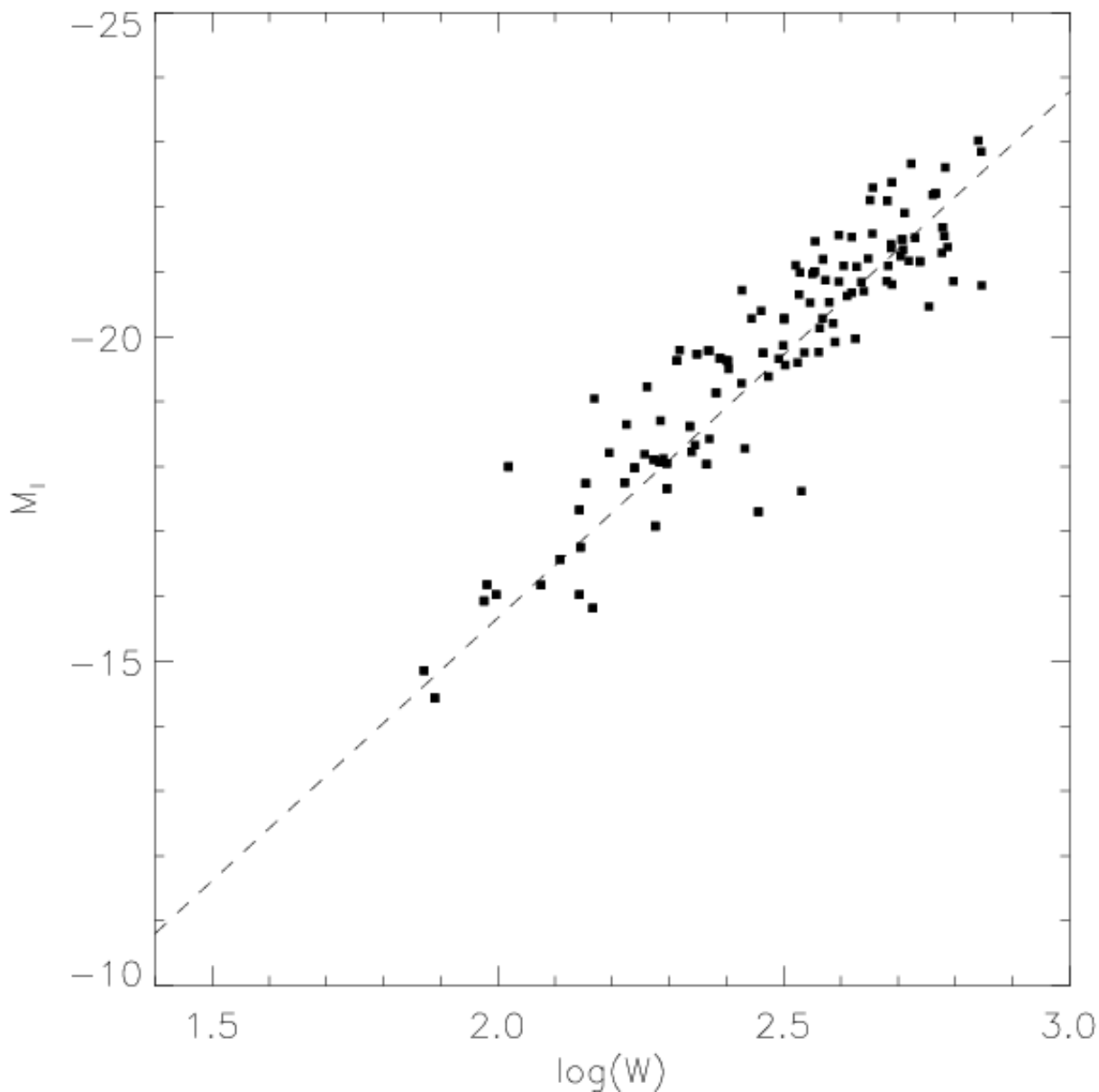
Science with AGES II : The Virgo Cluster



Science with AGES II : The Virgo Cluster

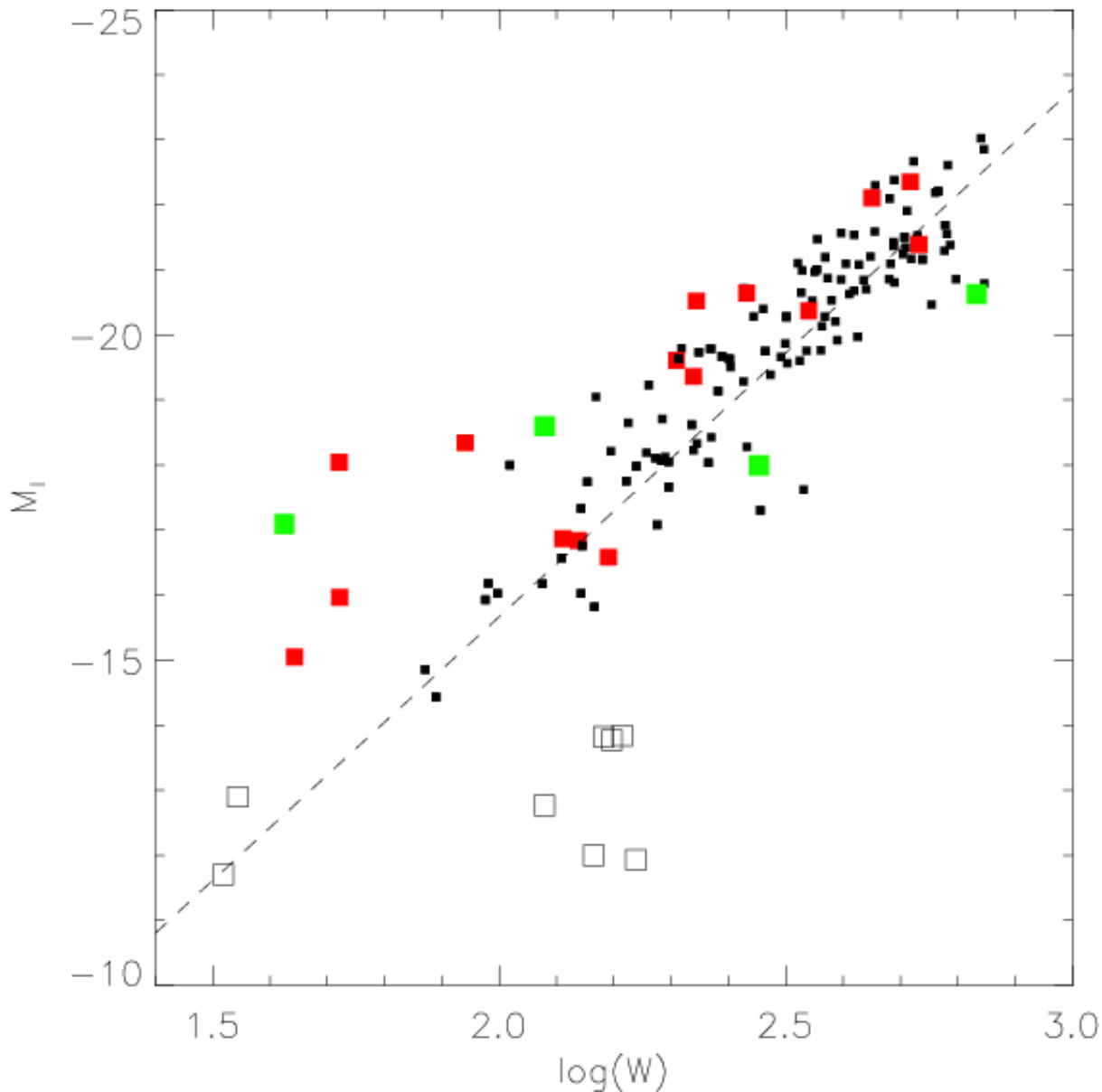


Science with AGES II : The Virgo Cluster



Tully-Fisher relation
from Masters et al.
2006 (dashed line)
plus AGES
background sample
(black points)

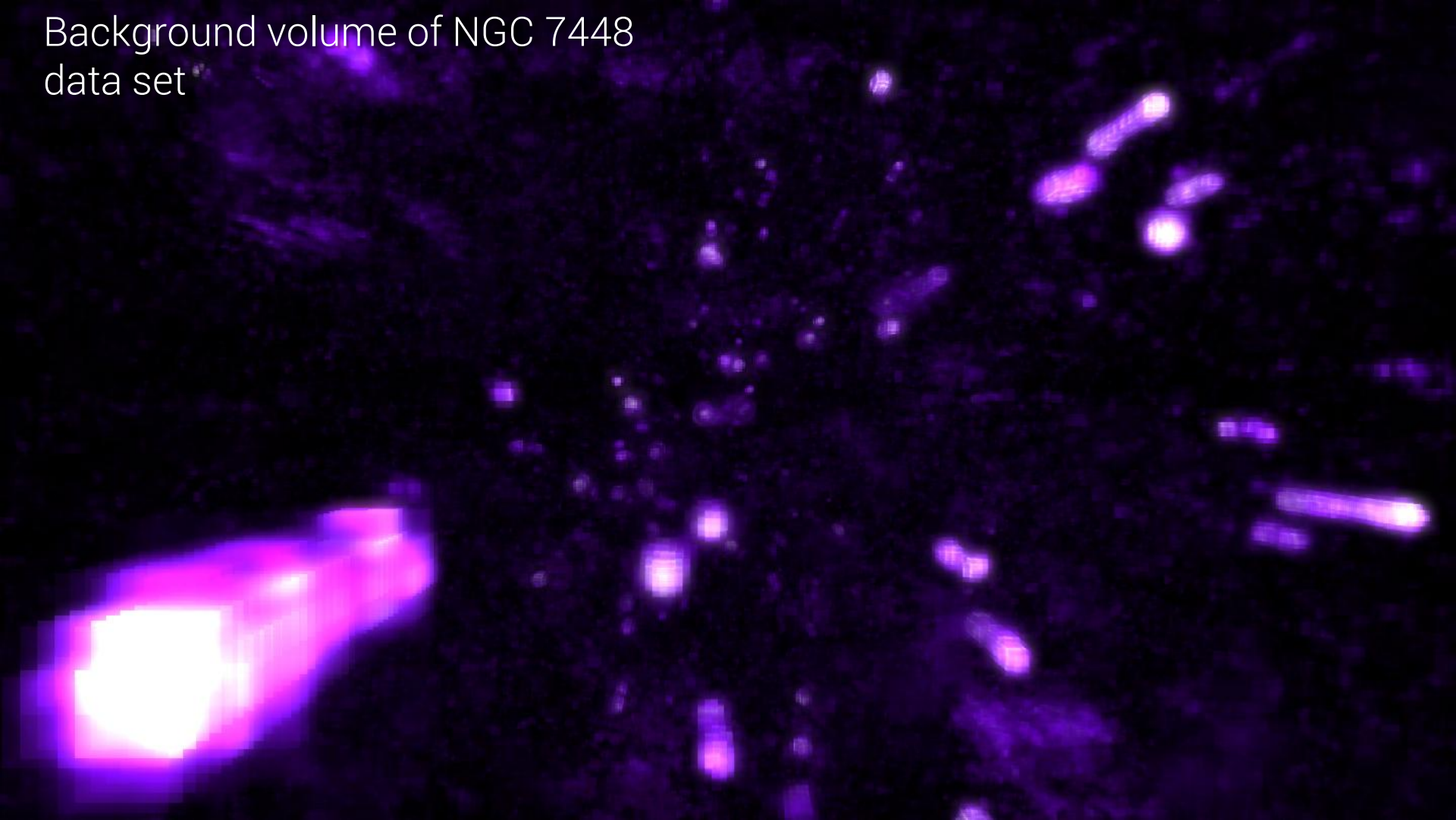
Science with AGES II : The Virgo Cluster



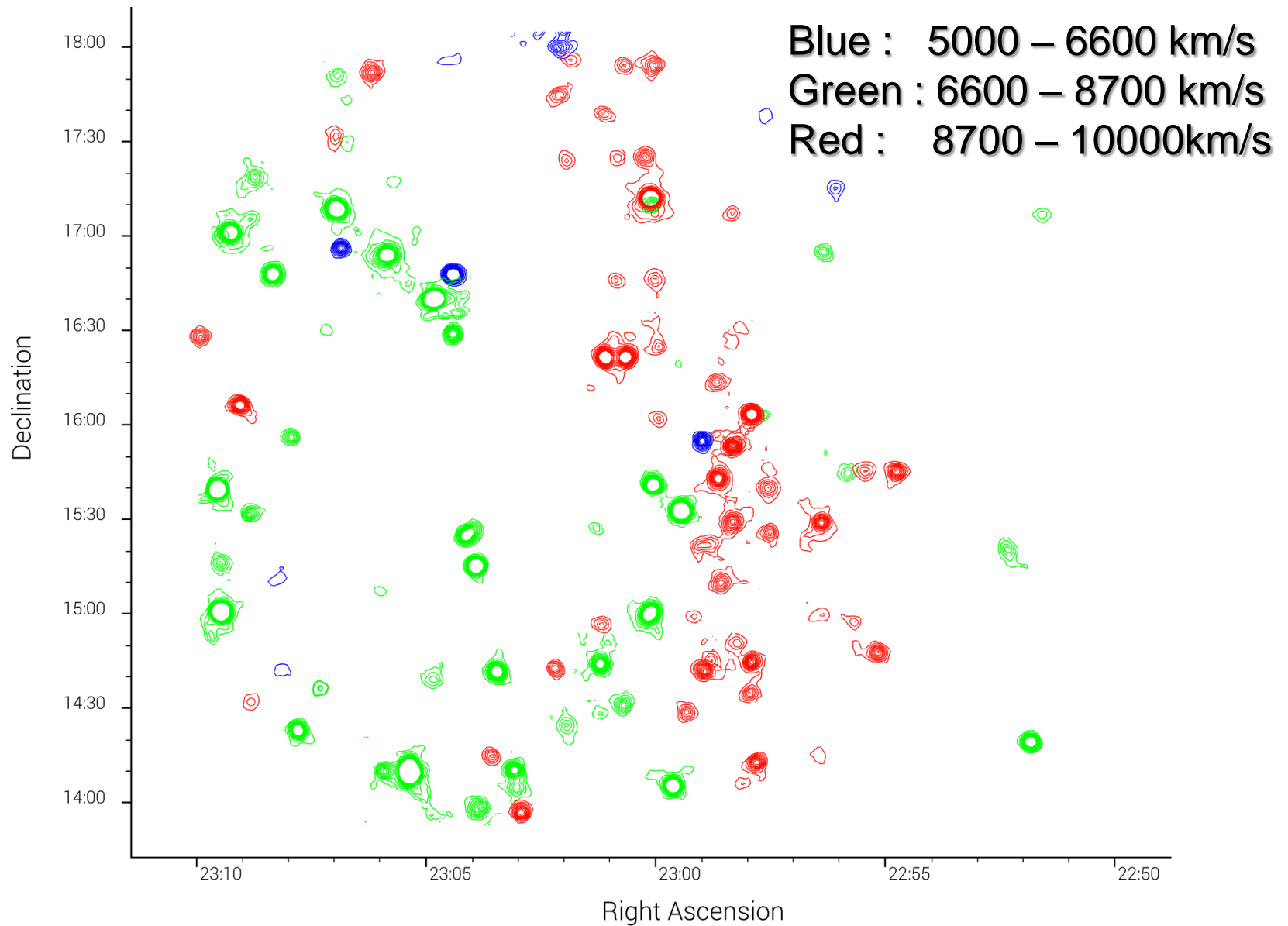
Red : strongly H α deficient late-type galaxies
Green : early-type galaxies
Black squares : no obvious optical counterparts

Science with AGES III : The AGES Volume

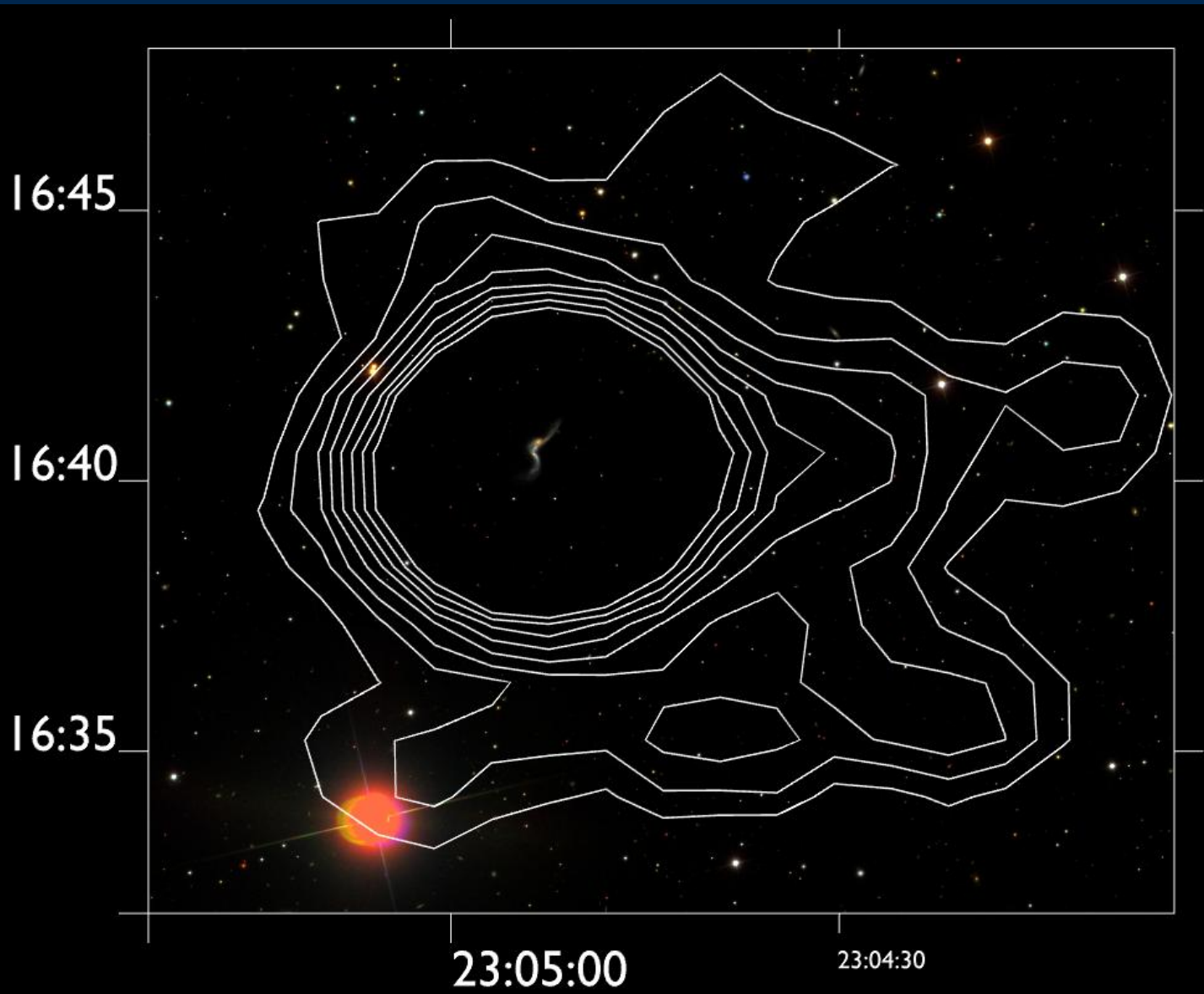
Background volume of NGC 7448
data set



Science with AGES III : The AGES Volume



Science with AGES III : The AGES Volume



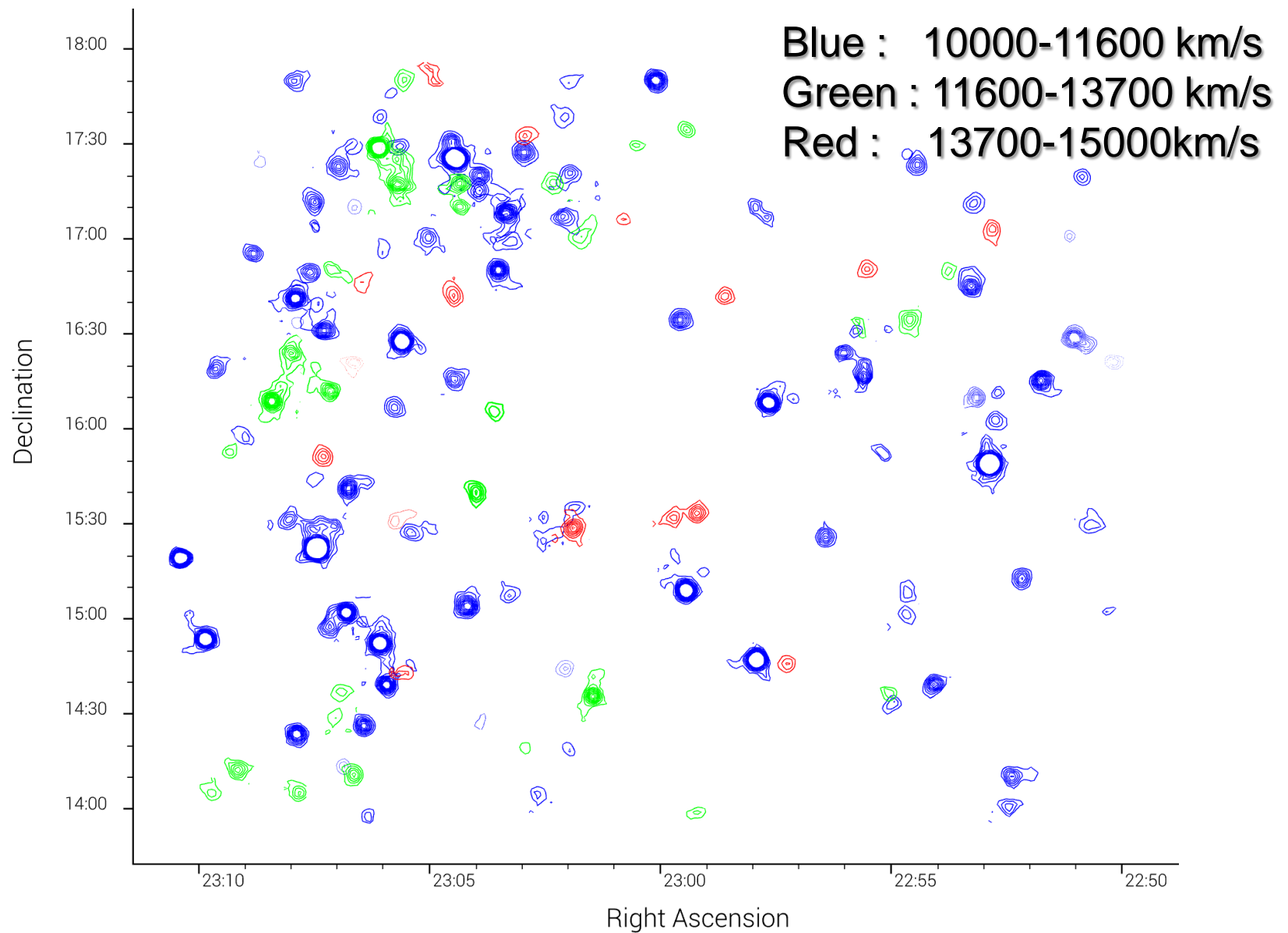
HI projected extent
~450 kpc

Science with AGES III : The AGES Volume

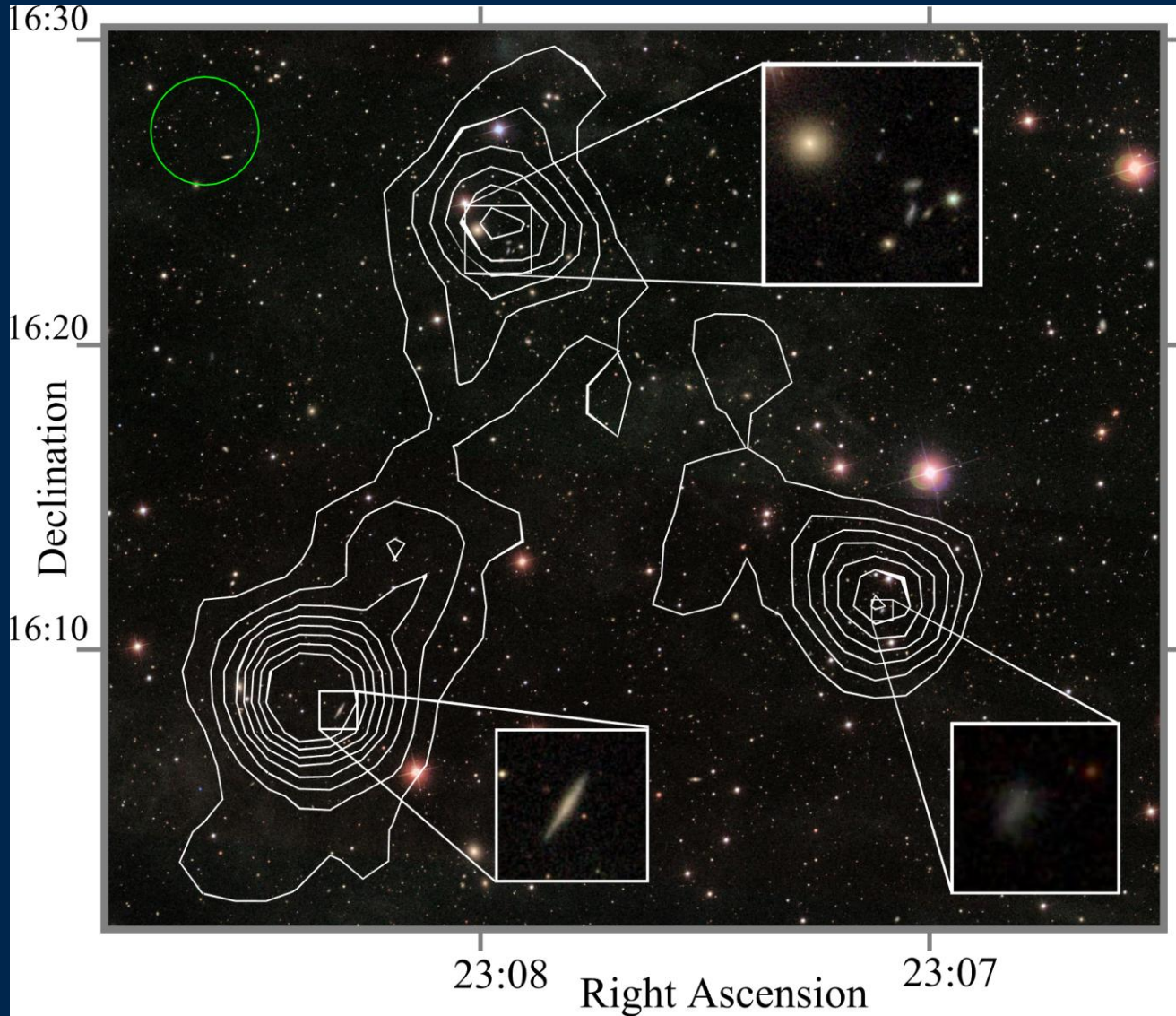


UGC 12342

Science with AGES III : The AGES Volume



Science with AGES III : The AGES Volume



HI projected length
~ 800 kpc

Summary

- Isolated galaxies are really isolated
- A very few objects without optical counterparts
- Some low-mass SOs may have truncated HI discs
- Many very extended HI streams outside of Virgo