



Widening our view: CCAPP and SDSS

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Collaboration

CCAPP and SDSS

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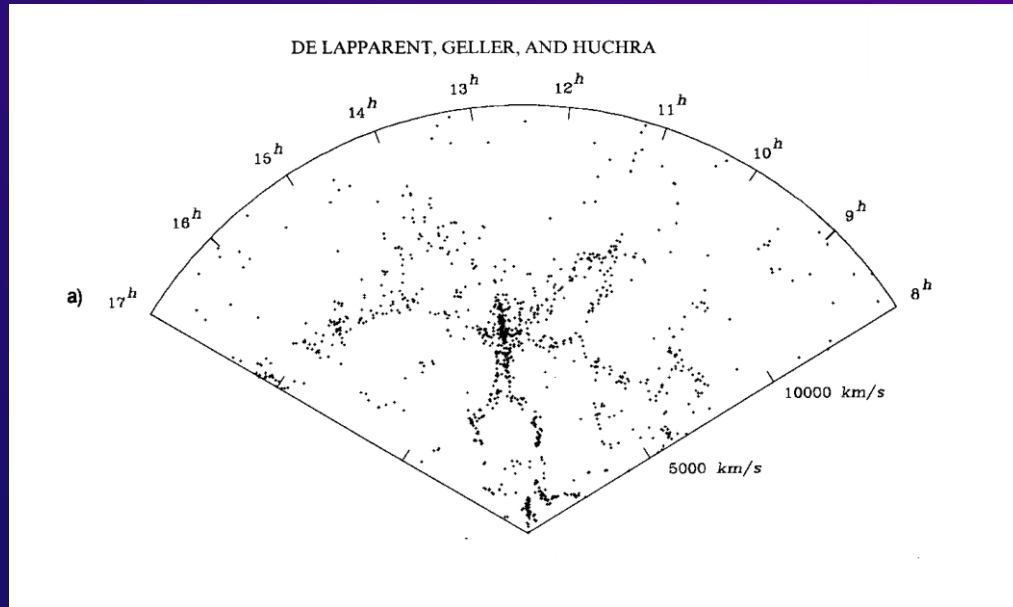
Ben Wibking

Tuguldur Sukbold

Ying Zu

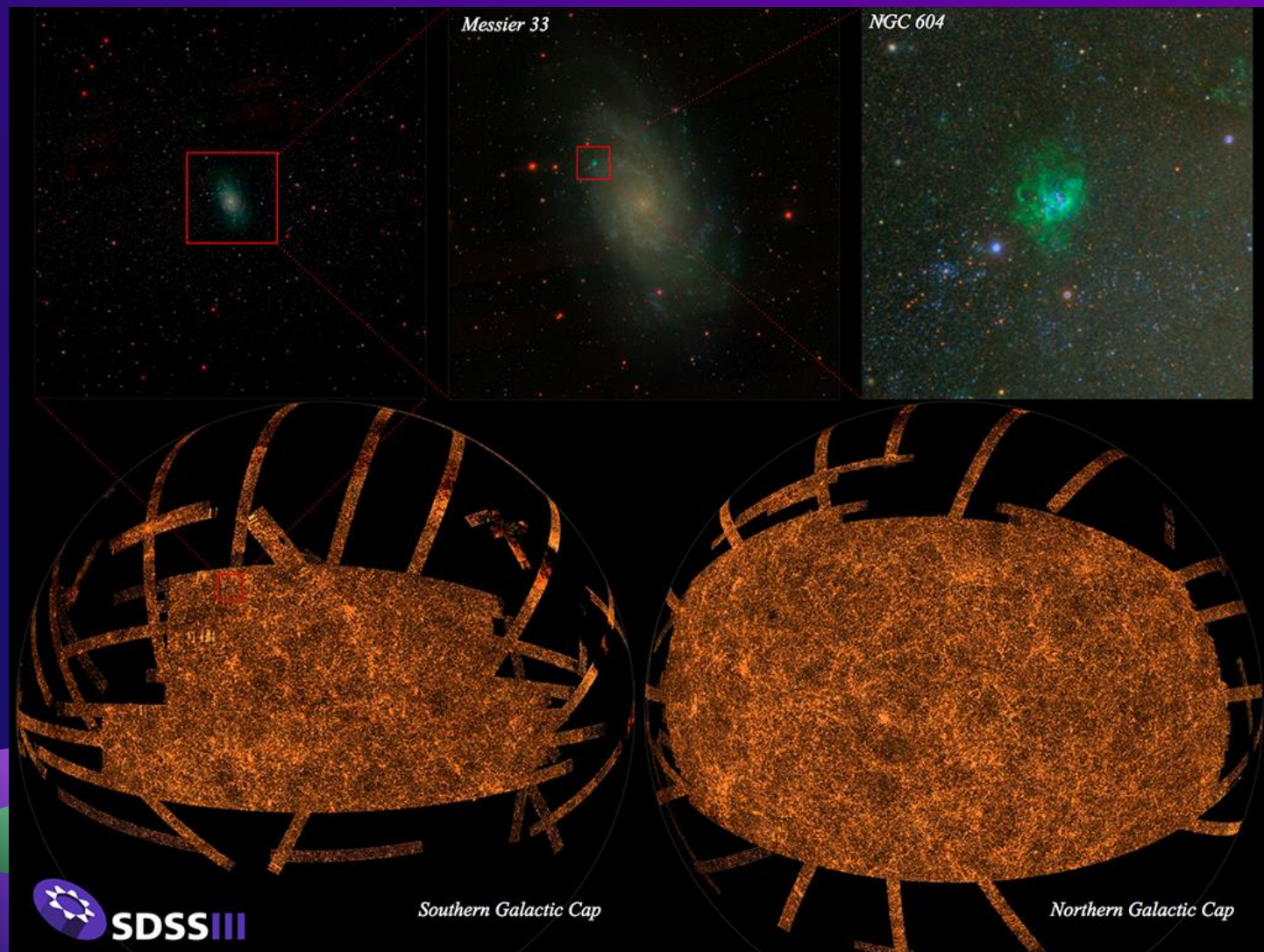
Sumit Sarbadhicary

Large Scale Structure



CCAPP and SDSS

Large Scale Structure

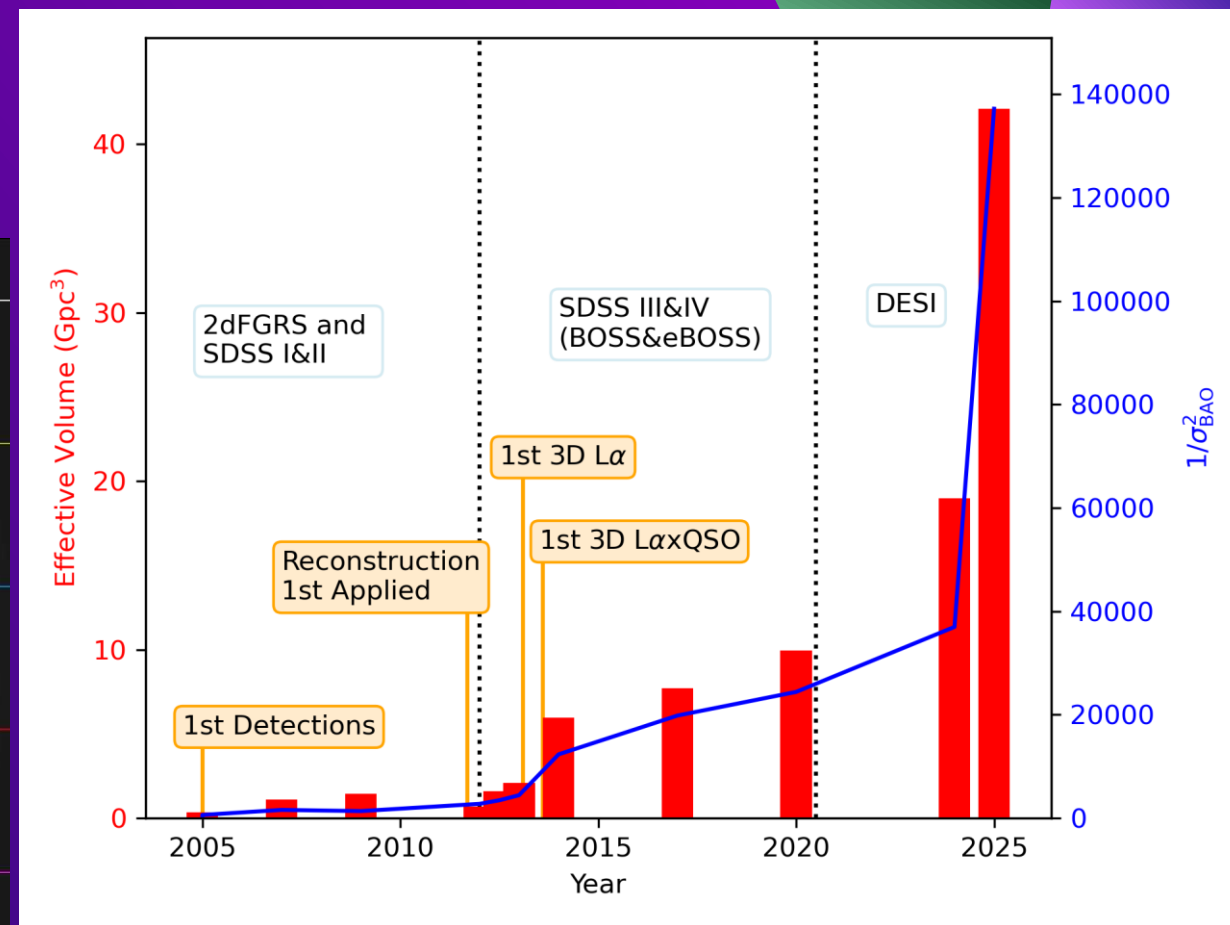
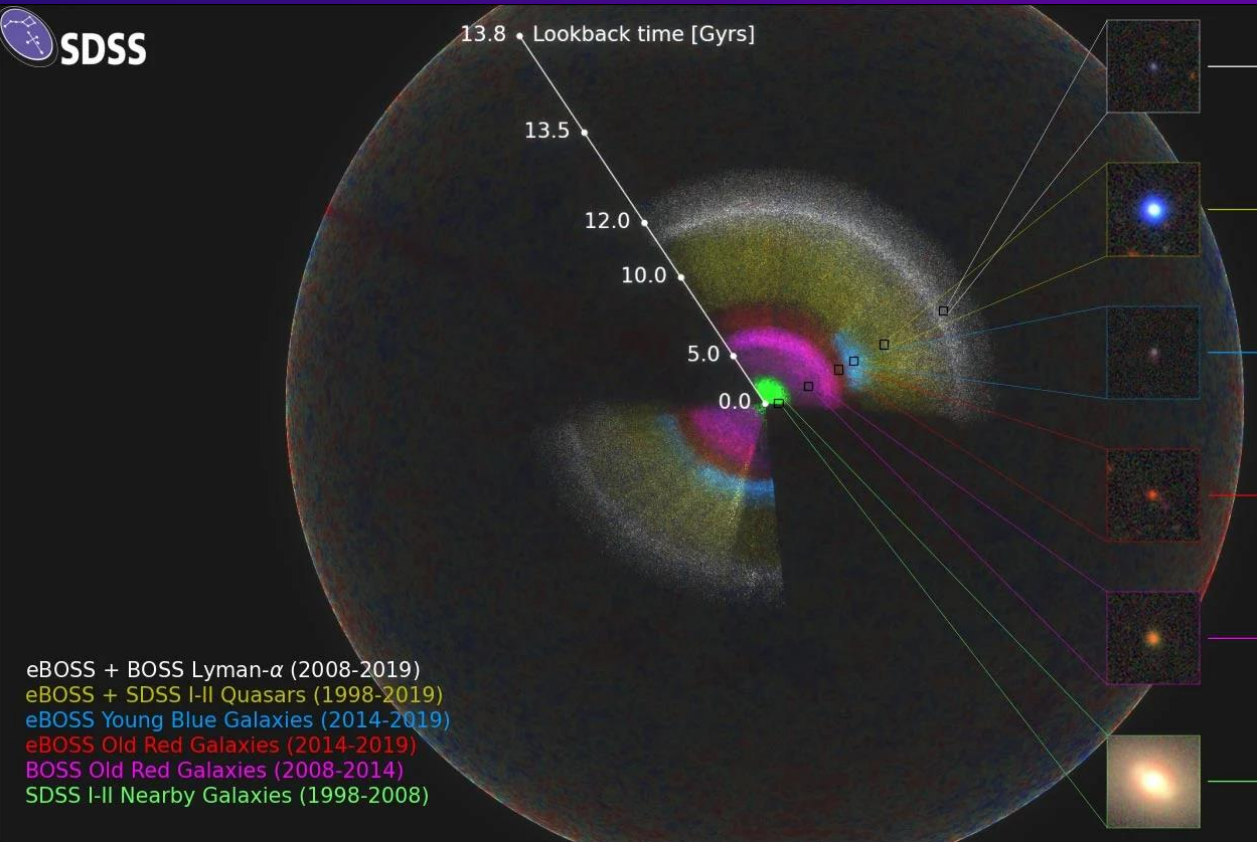


A Digital
Sky Survey
of the
Northern
Galactic
Cap

CCAPP and SDSS

M. Blanton & SDSS

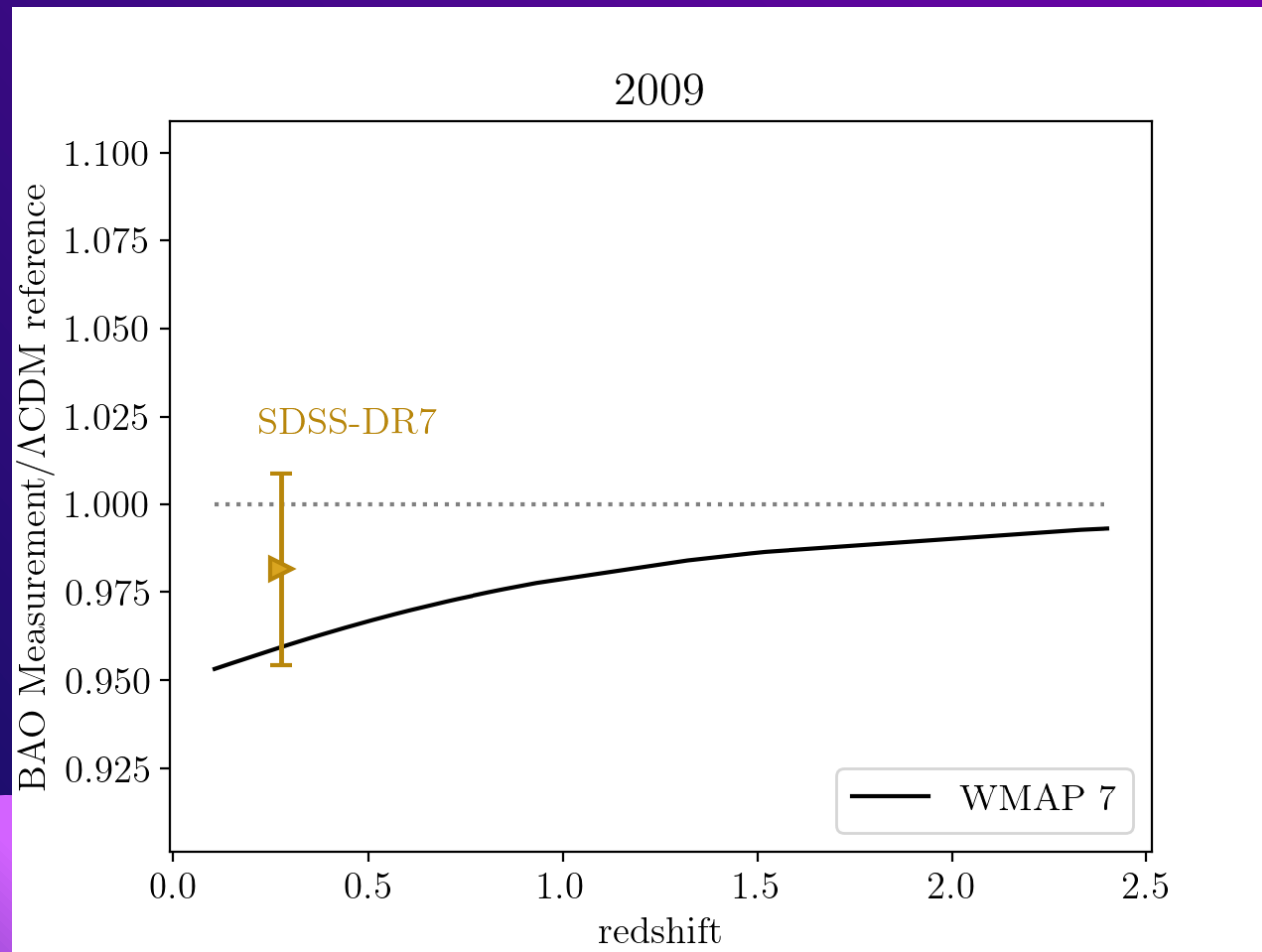
Large Scale Structure



Seo, Nadathur, and Ross (in prep.)

CCAPP and SDSS

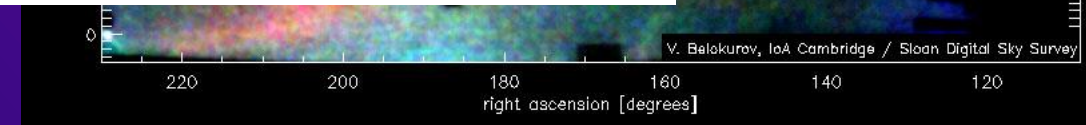
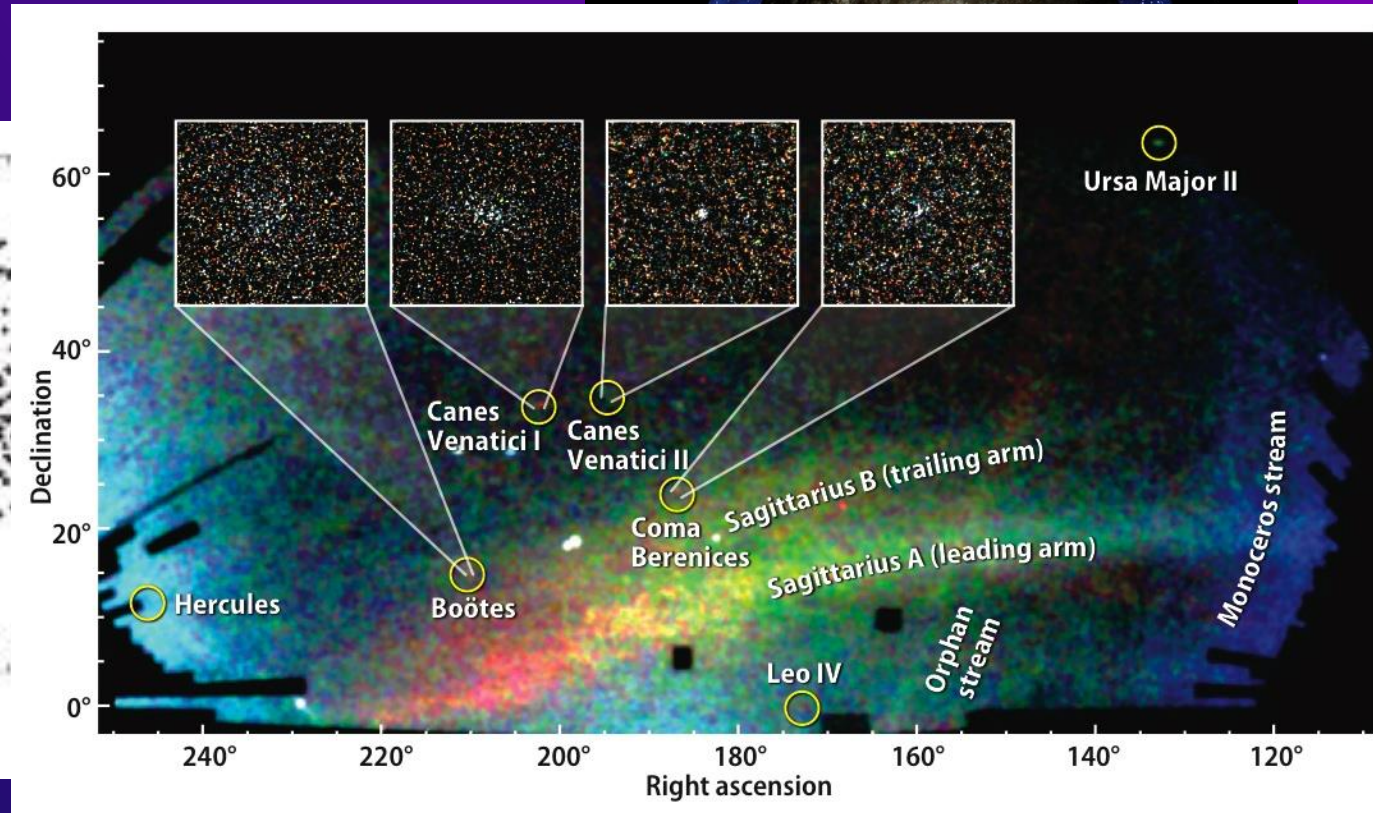
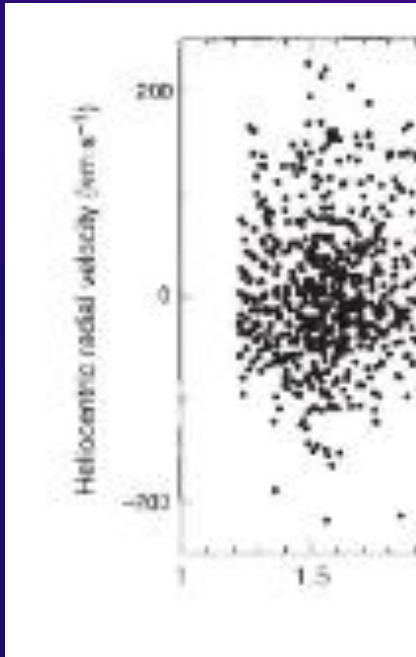
Large Scale Structure



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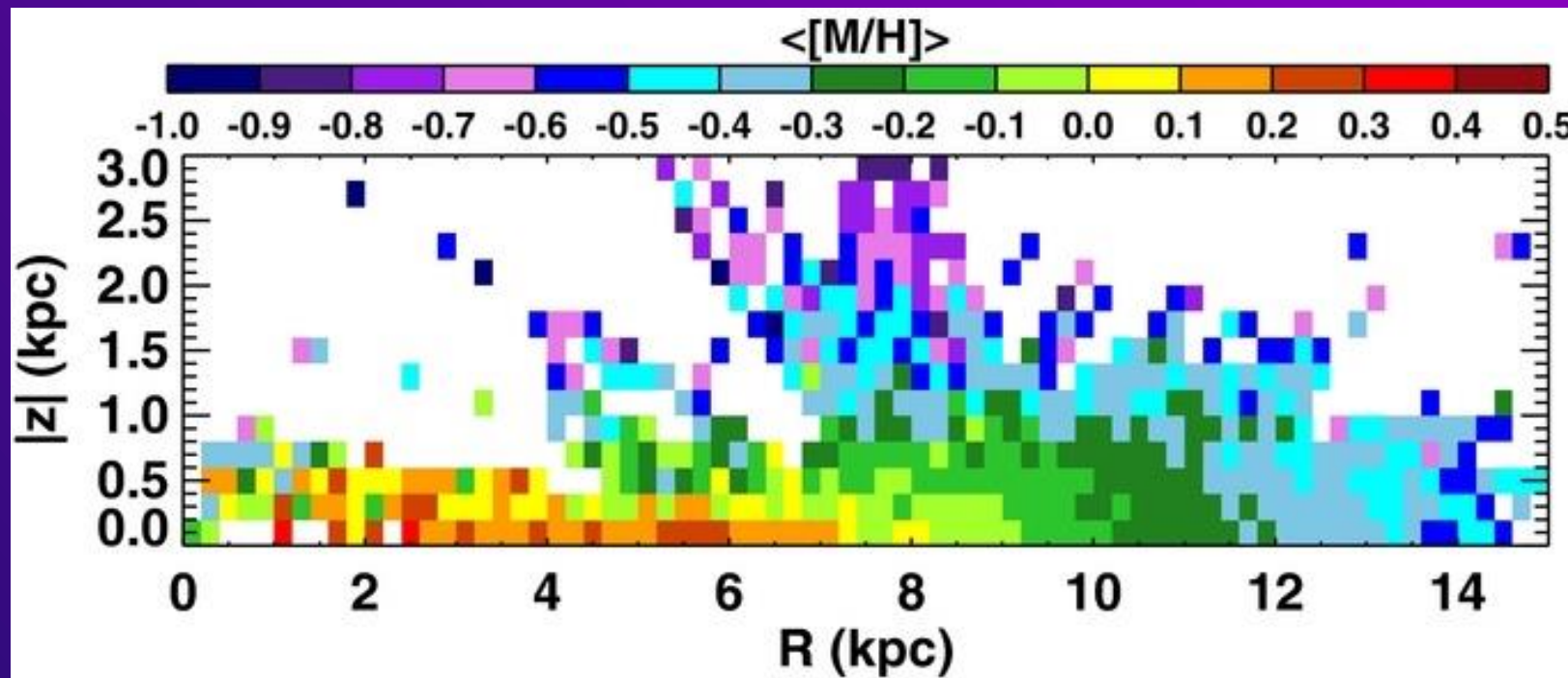
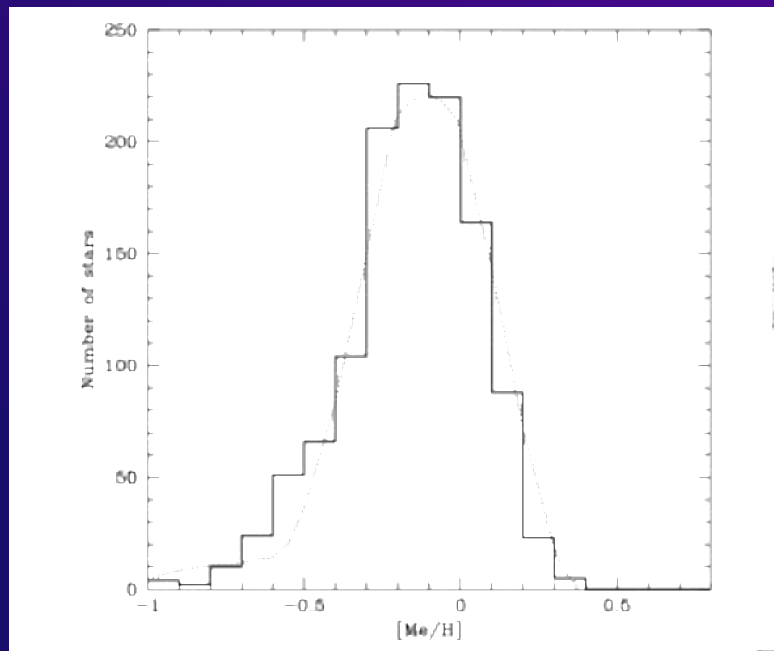
Local Structure



Ibata+ 2004, Newberg+ 2002, Belokurov+ 2007

CCAPP and SDSS

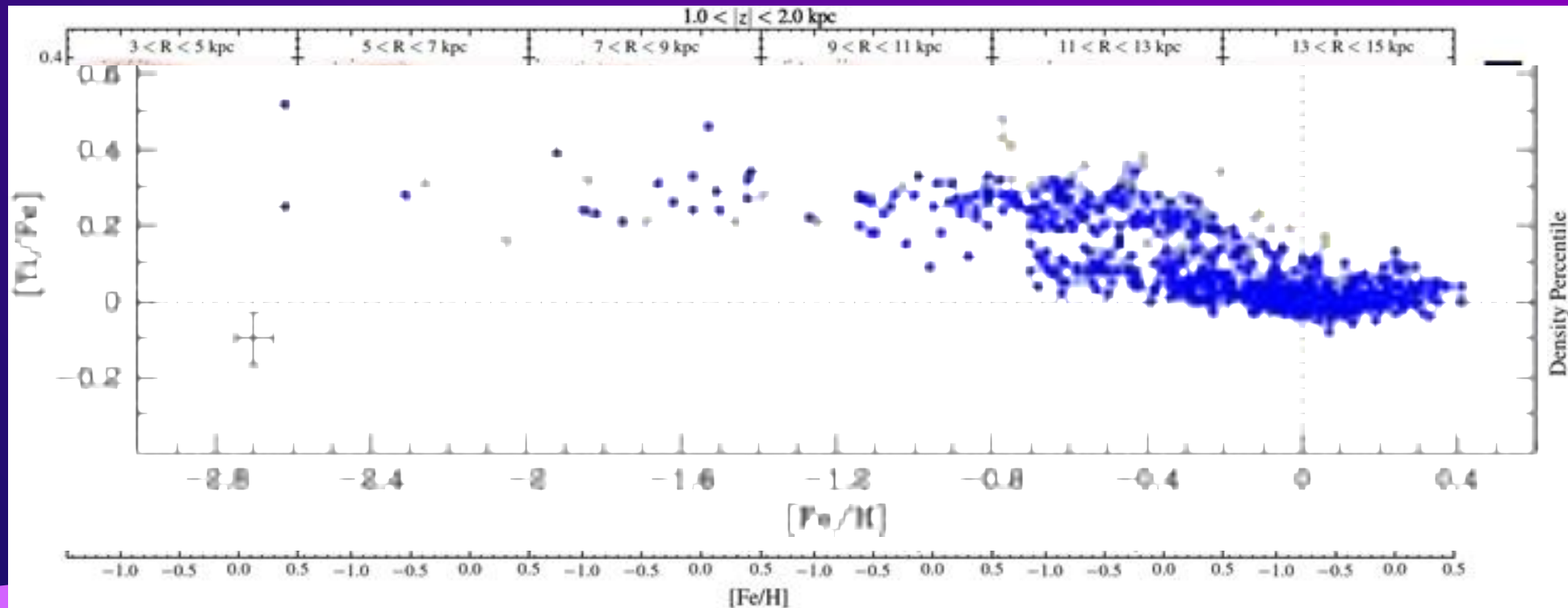
Beyond the Solar Neighborhood



Nordstrom+ 2004, Hayden+ 2014

CCAPP and SDSS

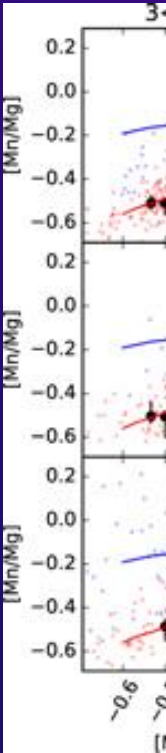
Beyond the Solar Neighborhood



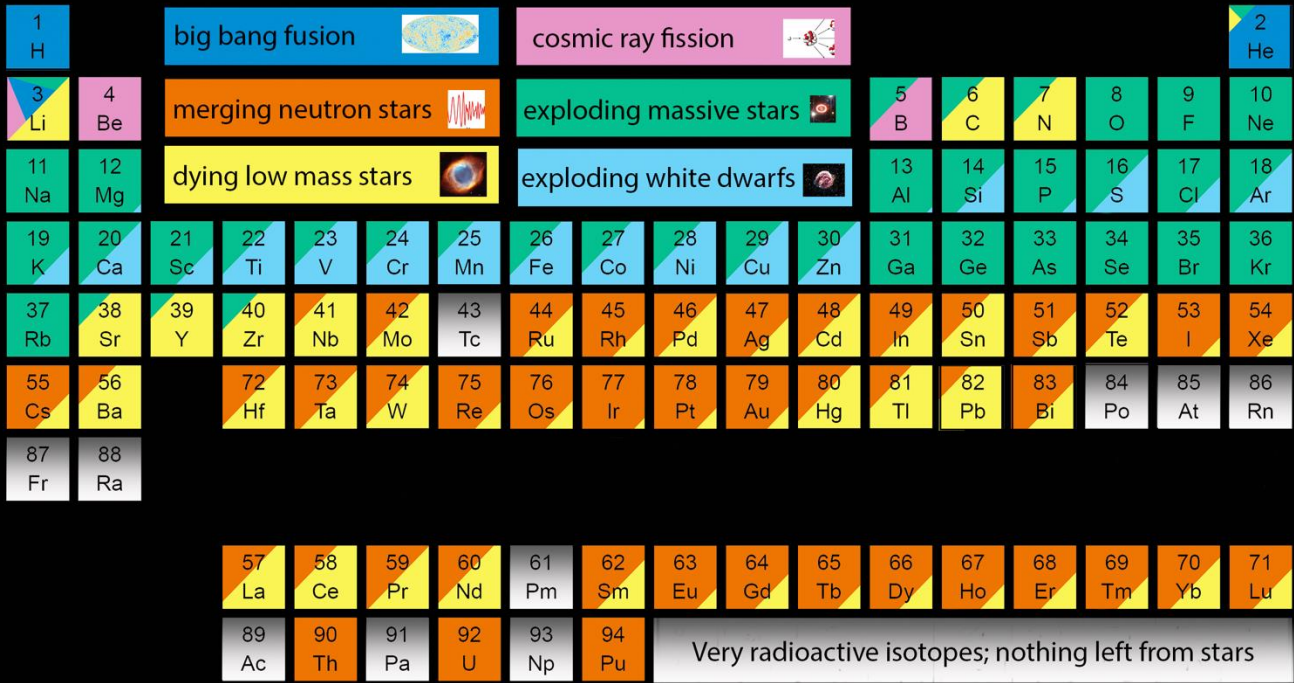
CCAPP and SDSS

Bensby+ 2004, Hayden+ 2015

Beyond Iron and alpha



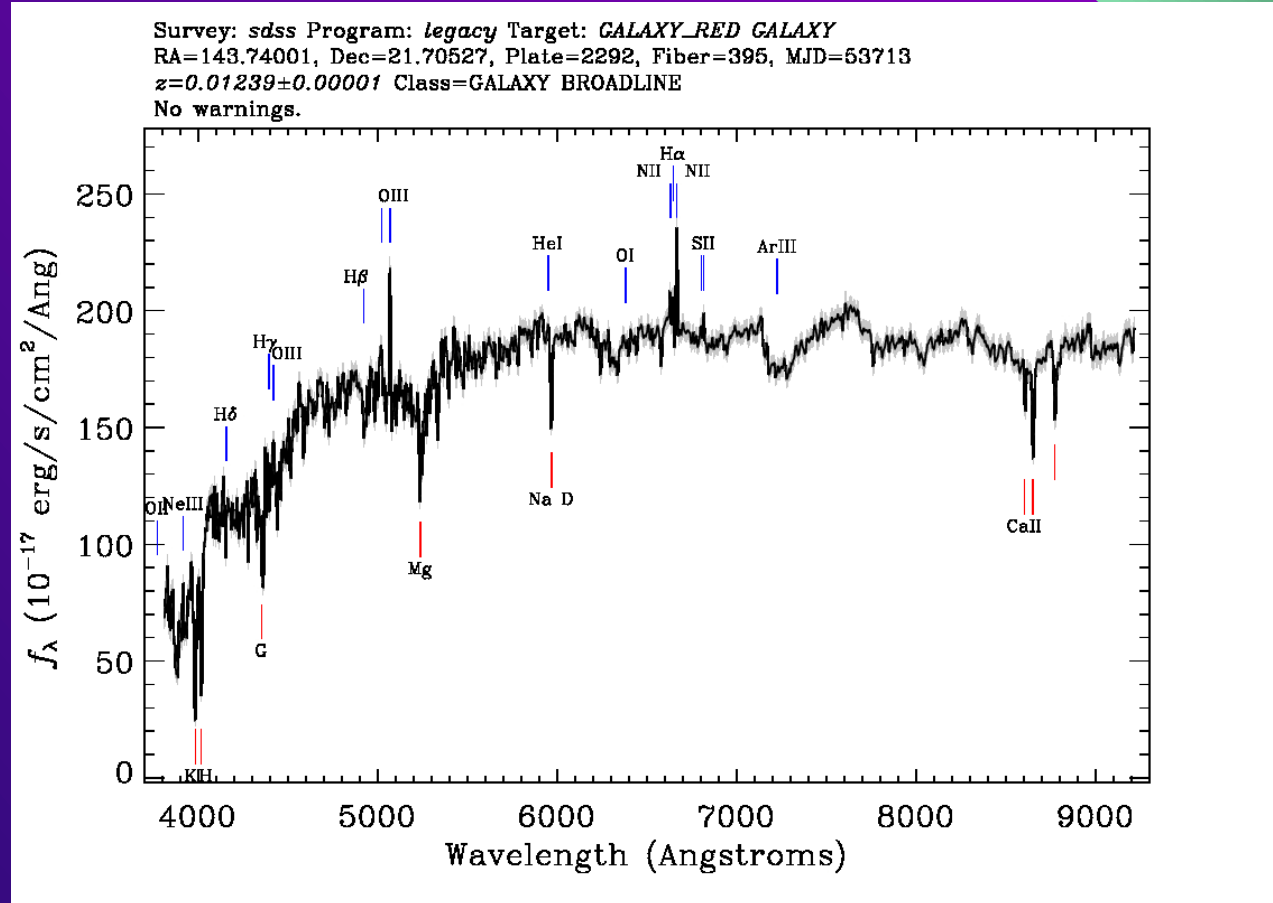
The Origin of the Solar System Elements



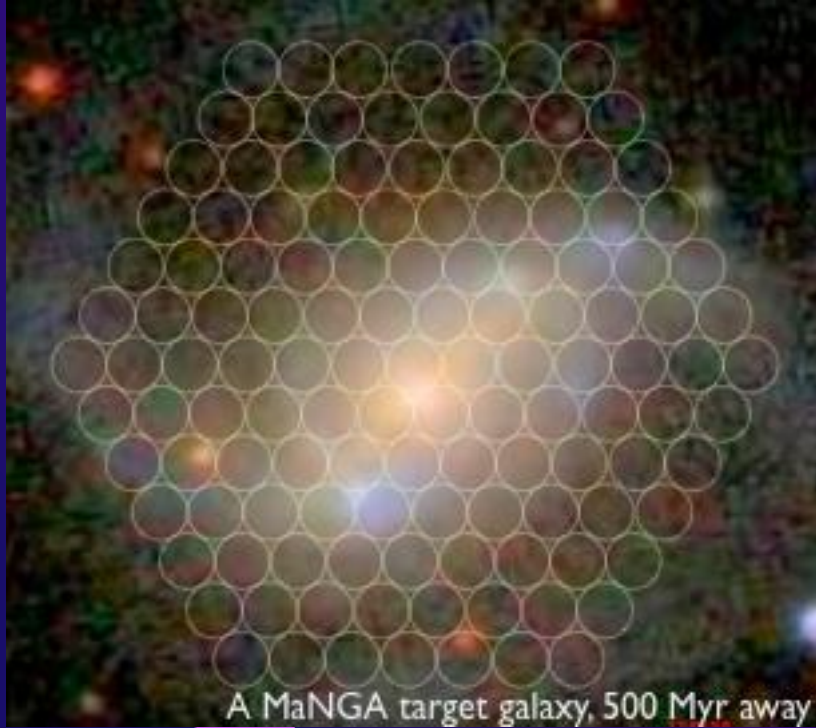
CCAPP and SDSS

Weinberg+ 2019, Griffith+ 2019

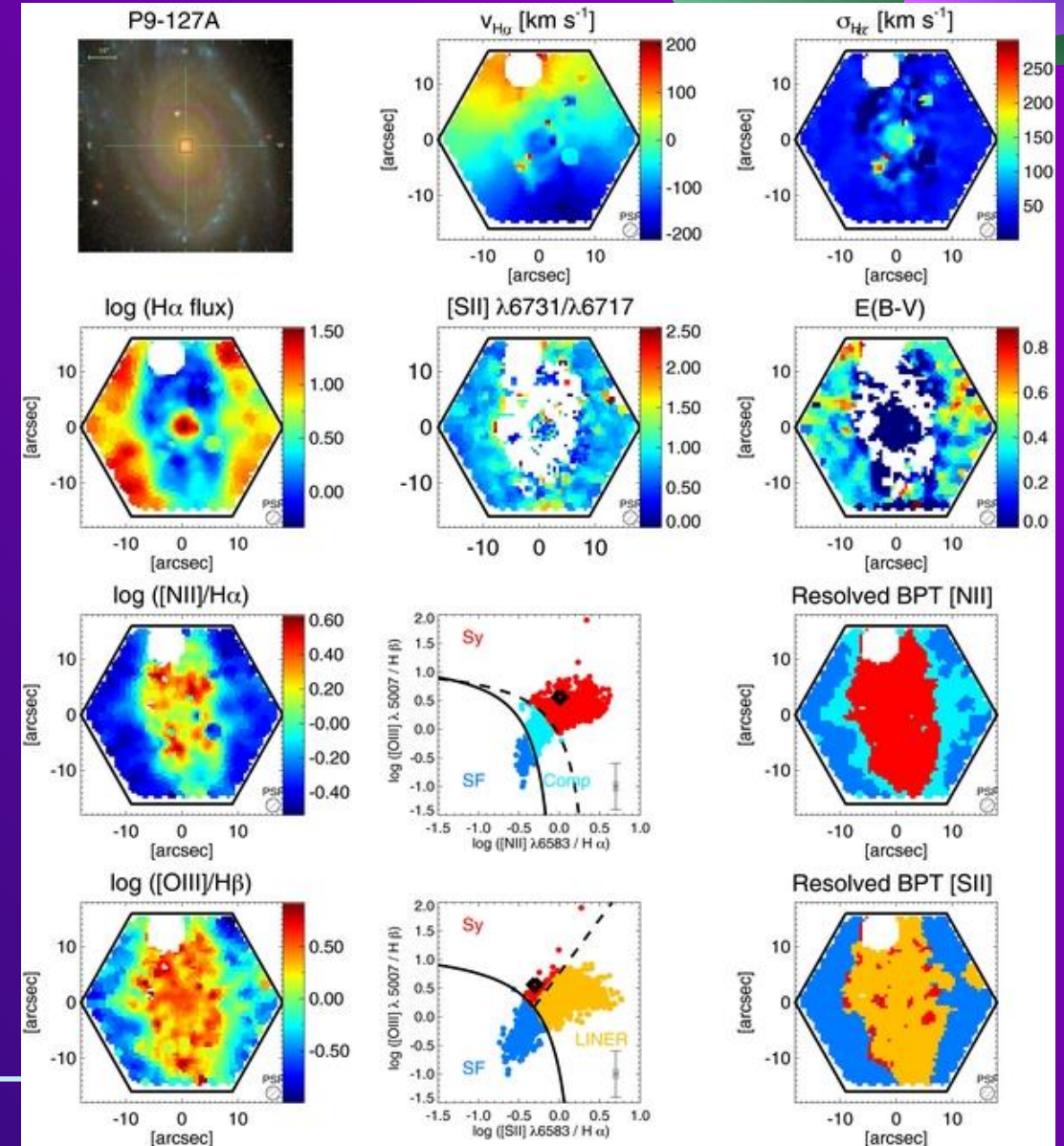
Galaxies are not just points



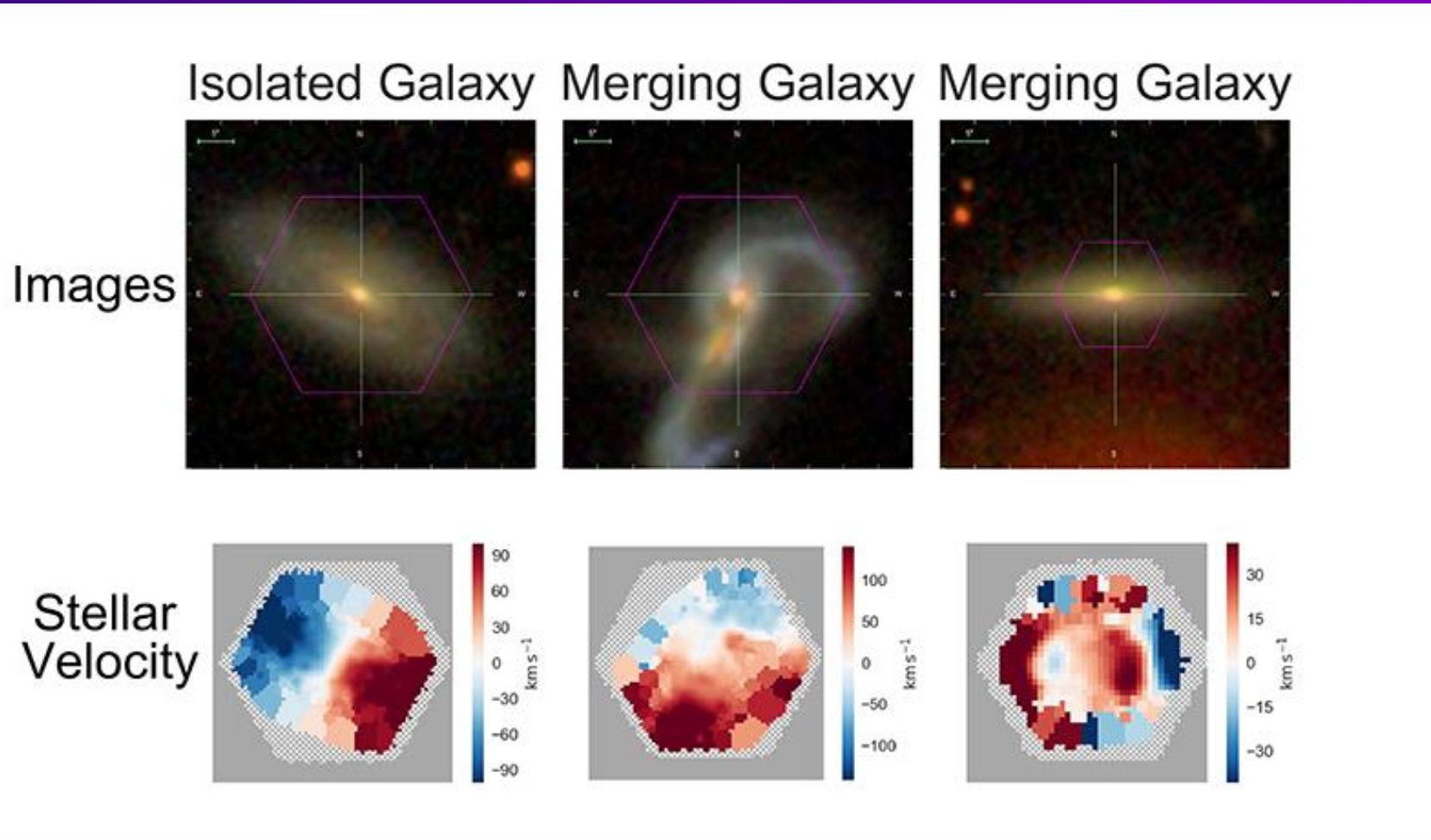
Galaxies are not just points



Bundy+ 2015



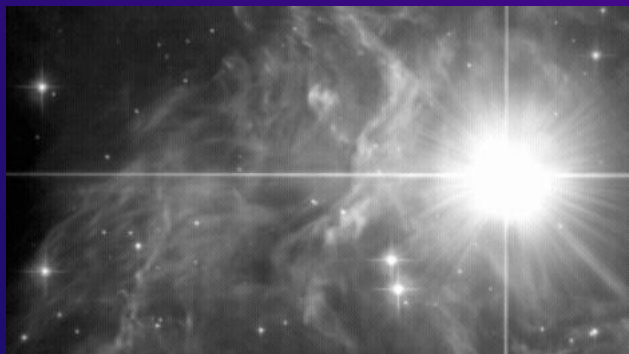
Galaxies are not just points



CCAPP and SDSS

MaNGA and SDSS-IV

After Sloan-V



Dynamic Universe Explorer

- transients, variable stars, black hole masses



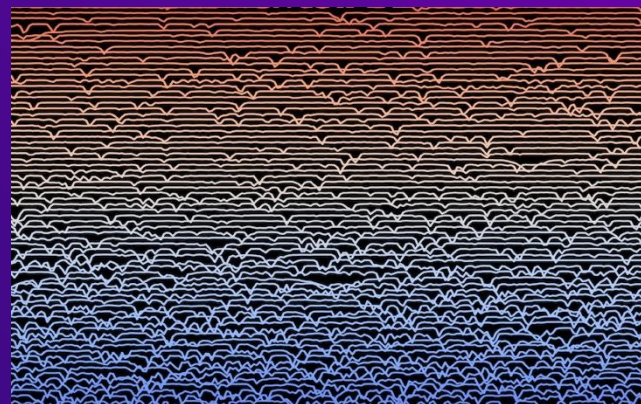
Hidden Galaxy Explorer

- Stellar populations across the Galaxy, Roman bulge



Local Volume Mapper-2

- M31, M33 and more!



Atomic Genesis Explorer

- origin of the elements and evolution of Galaxy