

Probing Metallicity across the Galactic Disk with the Green Bank Telescope

Dana S. Balser (National Radio Astronomy Observatory)
L.D. Anderson (West Virginia Univ.),
T.M. Bania & T.V. Wenger (Boston Univ.)



Probing Metallicity across the
Galactic Disk – Dana S. Balser

dbalser@nrao.edu
434-466-8999

Main Result

Metallicity variations in the Galaxy indicate that it is not as well mixed as expected.

Astronomer's Periodic Table:
Hydrogen, Helium, and Metals

Galaxy Formation and Evolution

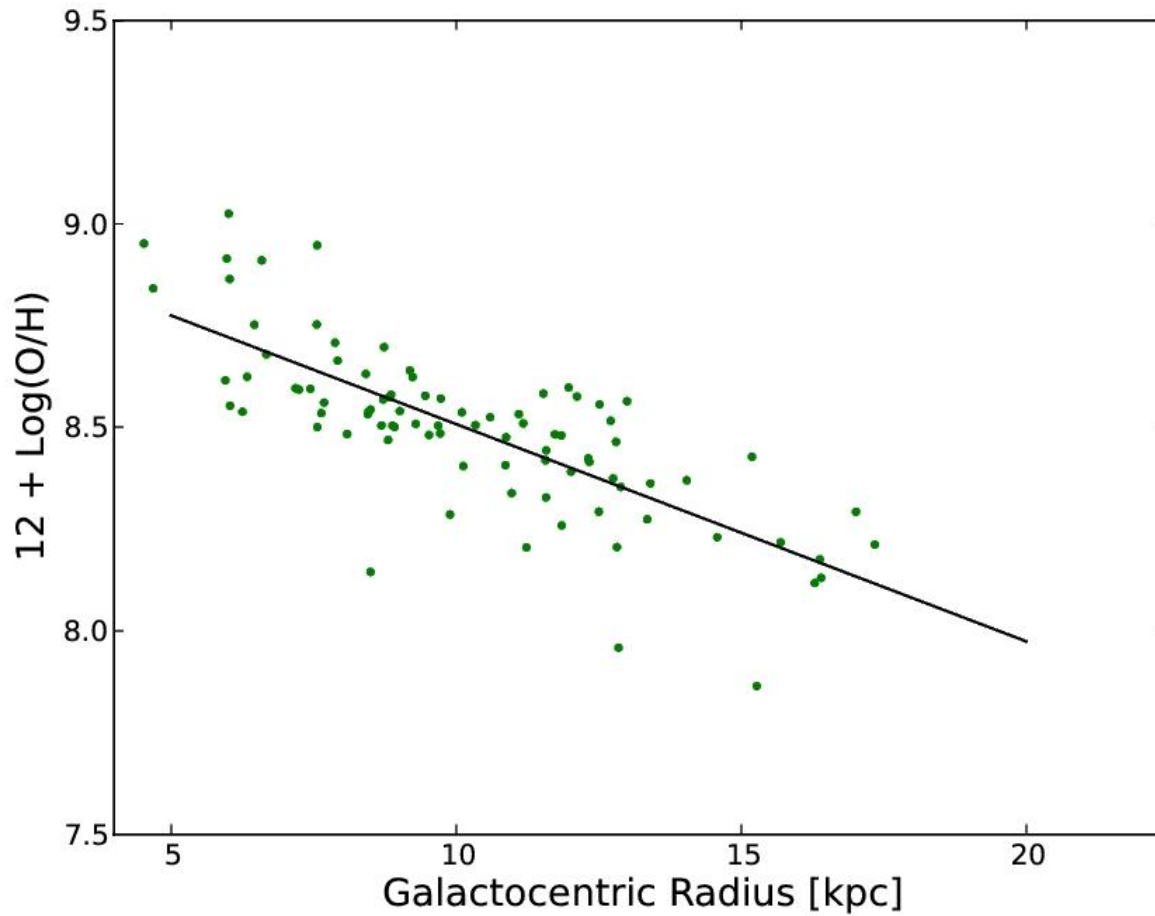


Andromeda
(M31)

Probing Metallicity across the
Galactic Disk – Dana S. Balsaer

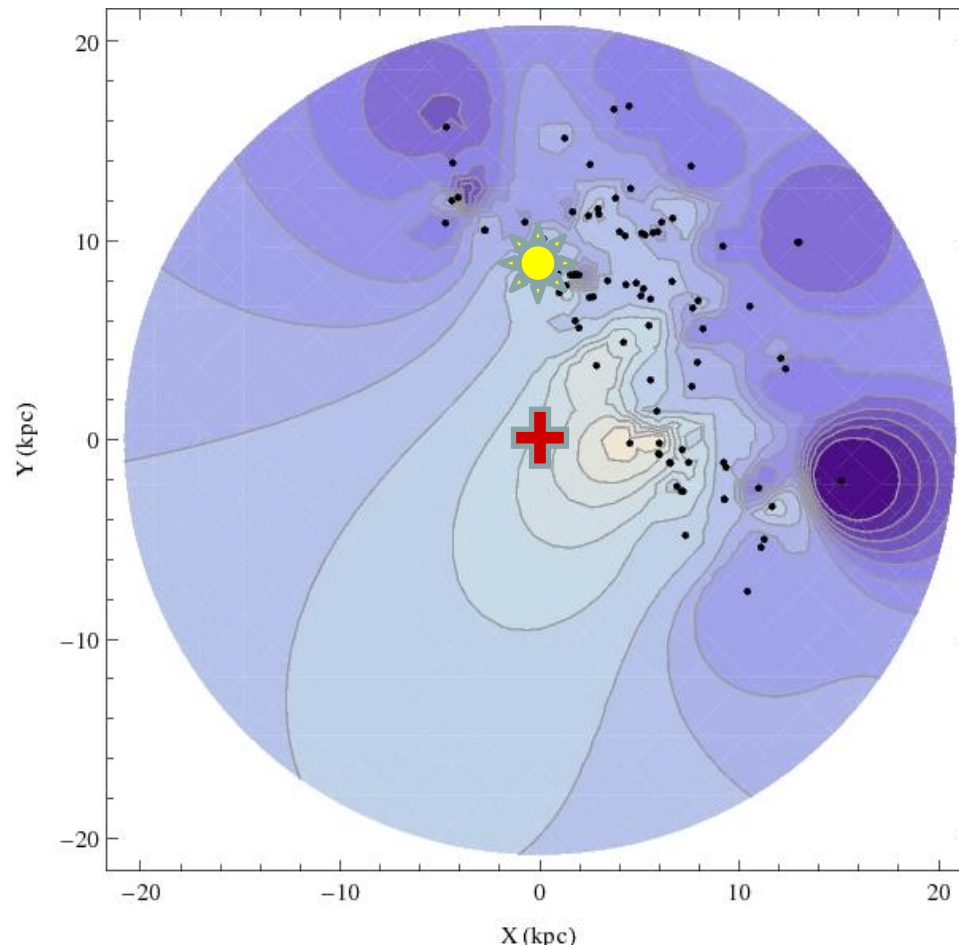
Martin Pugh

Metallicity Radial Gradient



Probing Metallicity across the
Galactic Disk – Dana S. Balser

Metallicity Azimuthal Structure



Probing Metallicity across the
Galactic Disk – Dana S. Balser

Summary

- Green Bank Telescope probes metallicity across the Galactic disk.
- Metallicity variations in the Galaxy indicate that It is not as well mixed as expected.