

Optimizing S/N and Spatial Resolution in 3D Spectroscopy with the WIYN Observatory's New Unique Multi-Fiber Size IFUs

Eric Hooper (*WIYN Observatory, Univ. Wisconsin*)

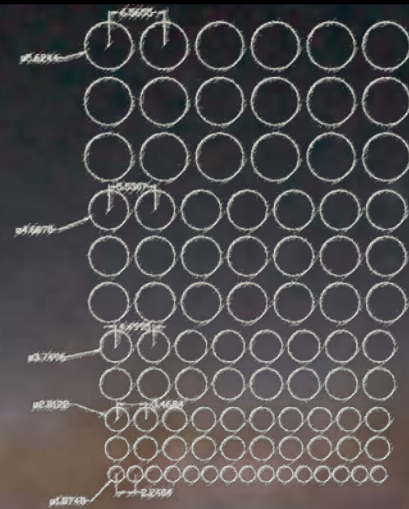
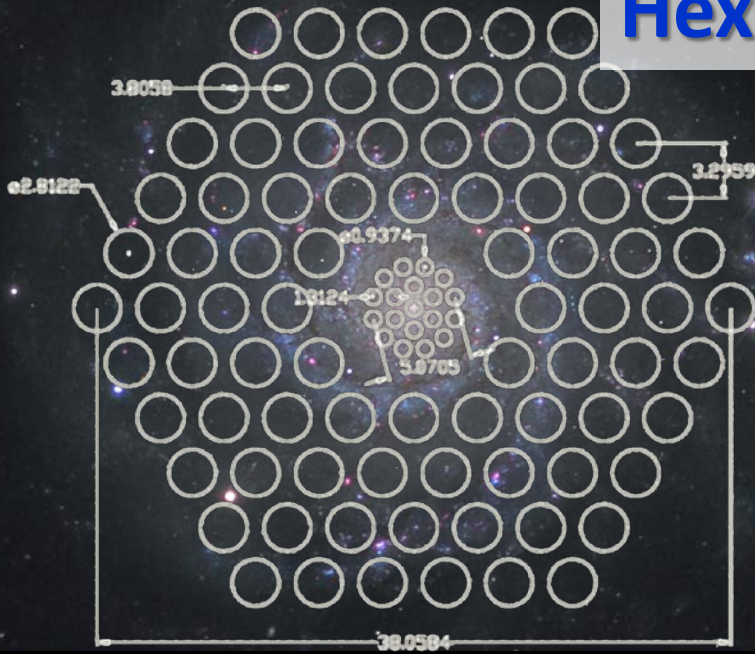
Matthew Bershad (*Univ. Wisconsin*)

Arthur Eigenbrot (*Univ. Wisconsin*)

Marsha Wolf (*Univ. Wisconsin, Washburn Astronomical Laboratories*)

Optimal Sampling of Nearby Galaxies

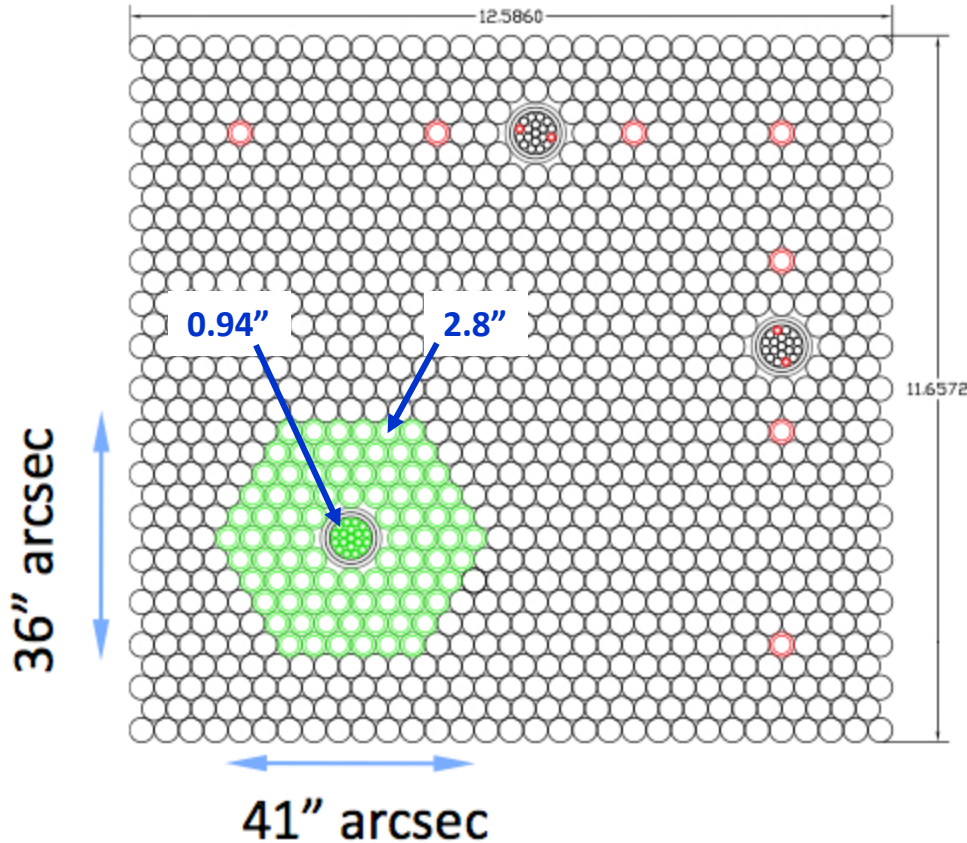
HexPak



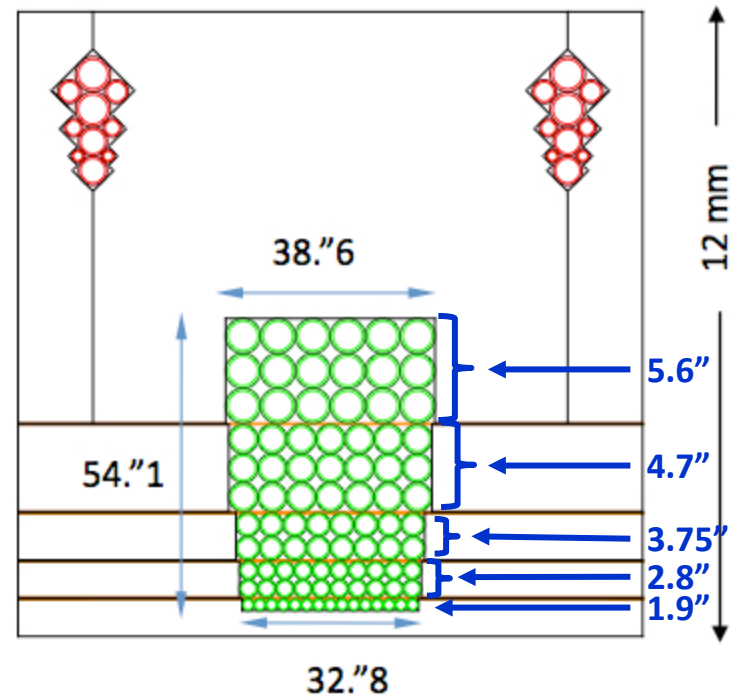
GradPak

Multiple Size Fiber IFUs

HexPak

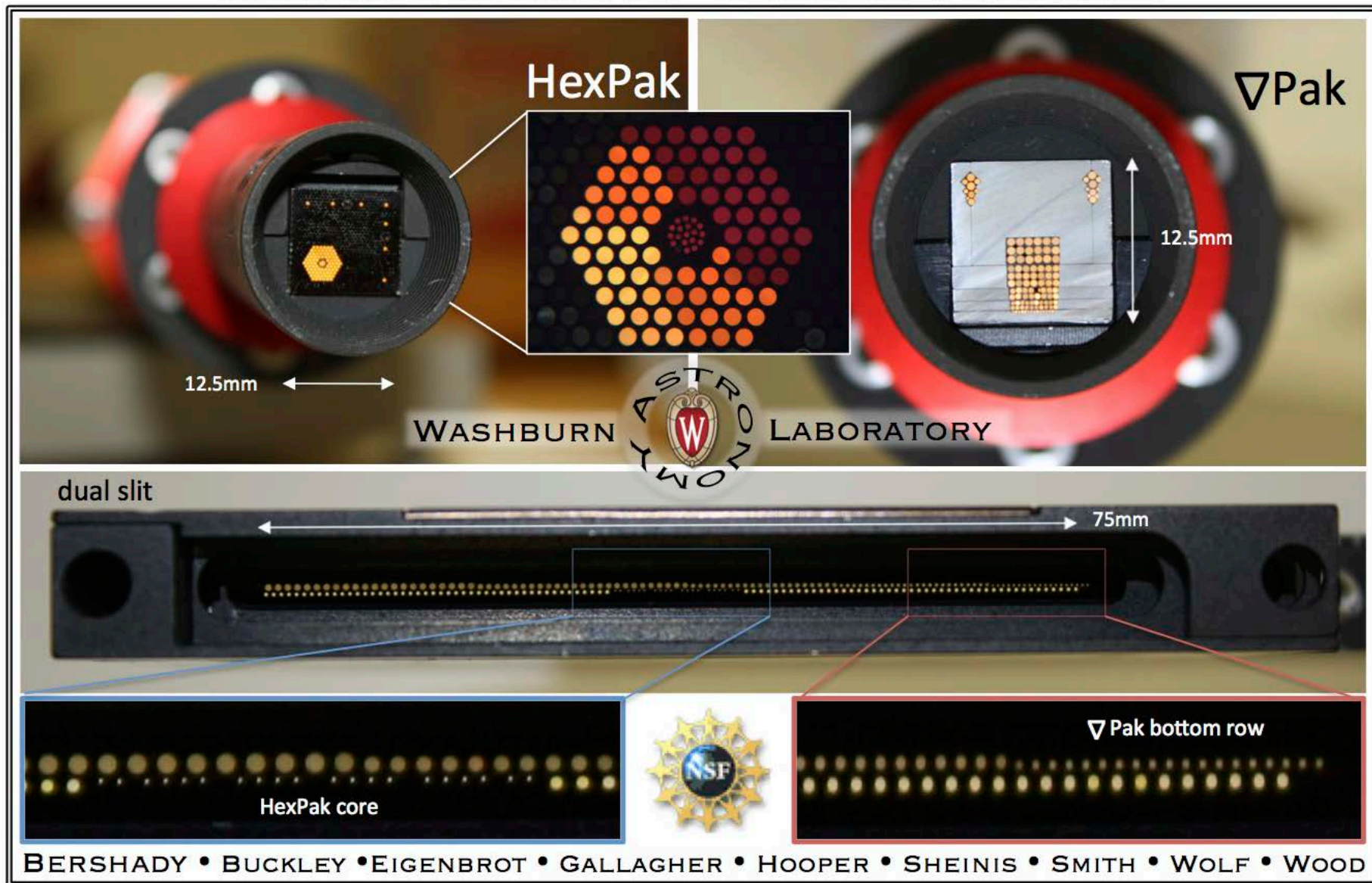


GradPak

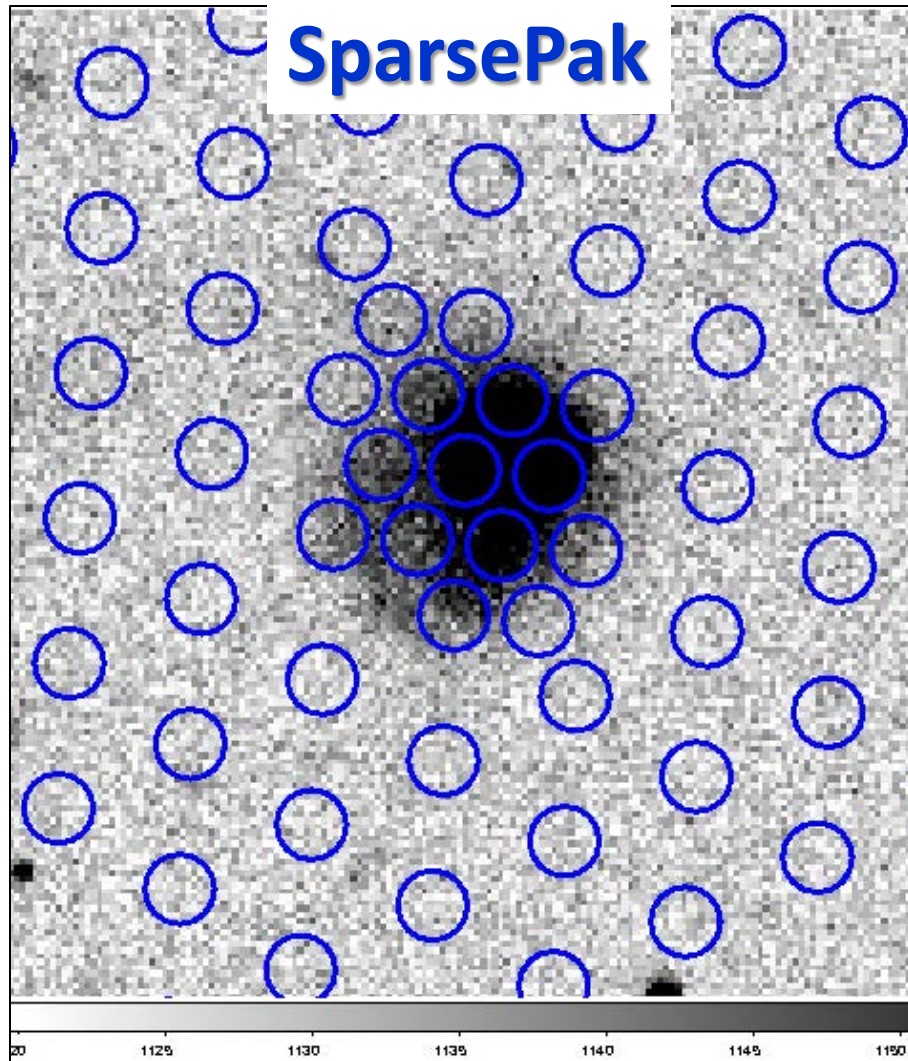


Green – source fibers; Red – sky fibers

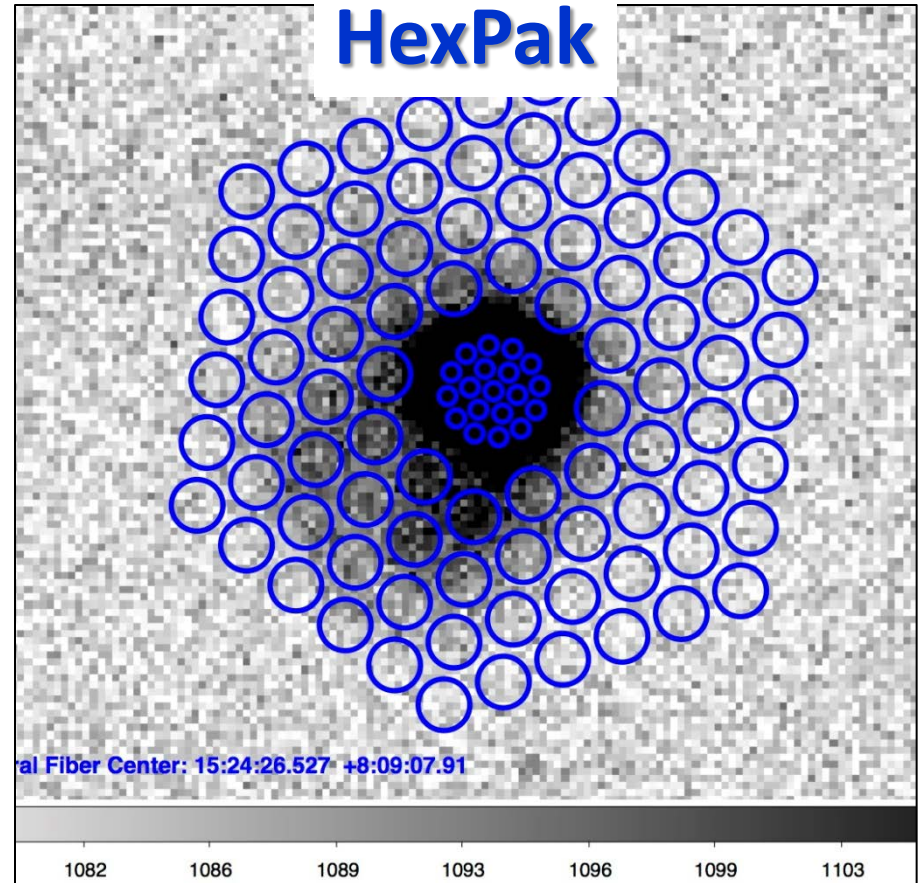
WIYN 3.5M TELESCOPE ~ BENCH SPECTROGRAPH



IFU On-Sky Comparison



E+A galaxy G515 (SDSS J152426+080908)



Posters Using Data from SparsePak

- **L50**: Liu+, *“Three-Dimensional Spectroscopy and Star Formation Histories of Field E+A Galaxies”*
- **W94**: Wolf+, *“A 3D Search for the Interplay between AGN and Star Formation in Galaxies”*