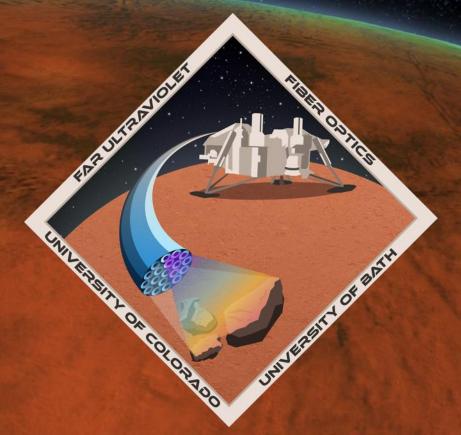
101 Fun Things to do with Far-UV Fiber Optics

Brian Fleming - University of Colorado - Brian.fleming@colorado.edu AAS 237: NASA COPAG UV SIG/TIG Splinter January 14, 2021





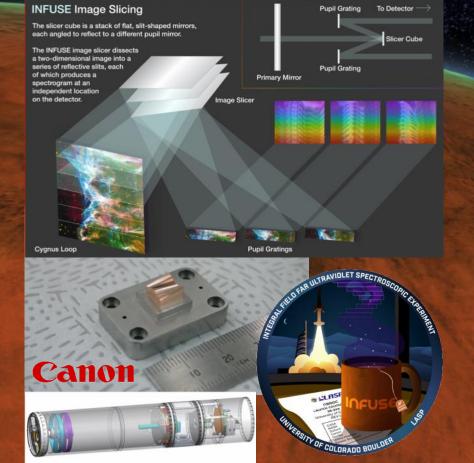




Integral Field Spectroscopy in the Far-UV

Galaxies, halos, nebulae, supernova shocks, are extended objects

Every orbital FUV/LUV (λ < 120 nm) spectrograph in the history of orbital FUV spectrographs have been **point source spectrographs** or had > 1' resolution



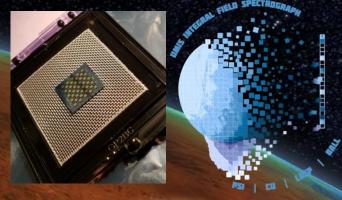
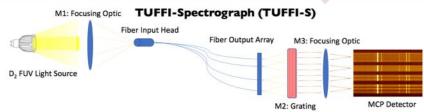


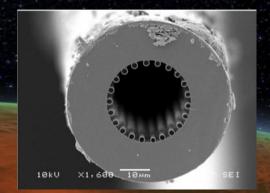
Image slicing (INFUSE)
and
Adaptive image slicing
(UMIS; PI A. Hendrix, PSI)
UV IFUs for the 2020s

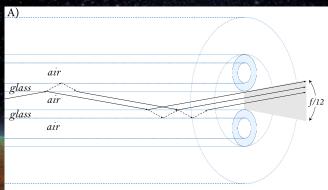


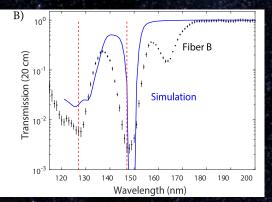


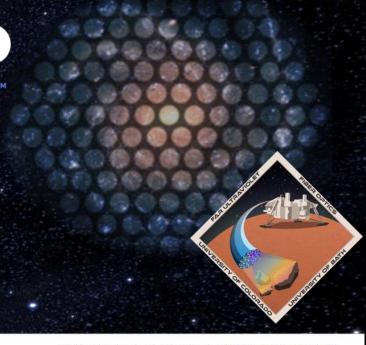
Far-UV Guiding Fiber Optics

For... calibration... And Planetary Science!









1200 1400 1600 1800

Wavelength (Å)

Other UV Fiber Optics Team Members: Dmitry Vorobiev, Wes Gilliam (Student), Zayna Sheikh (Logo), U Bath (UK)

