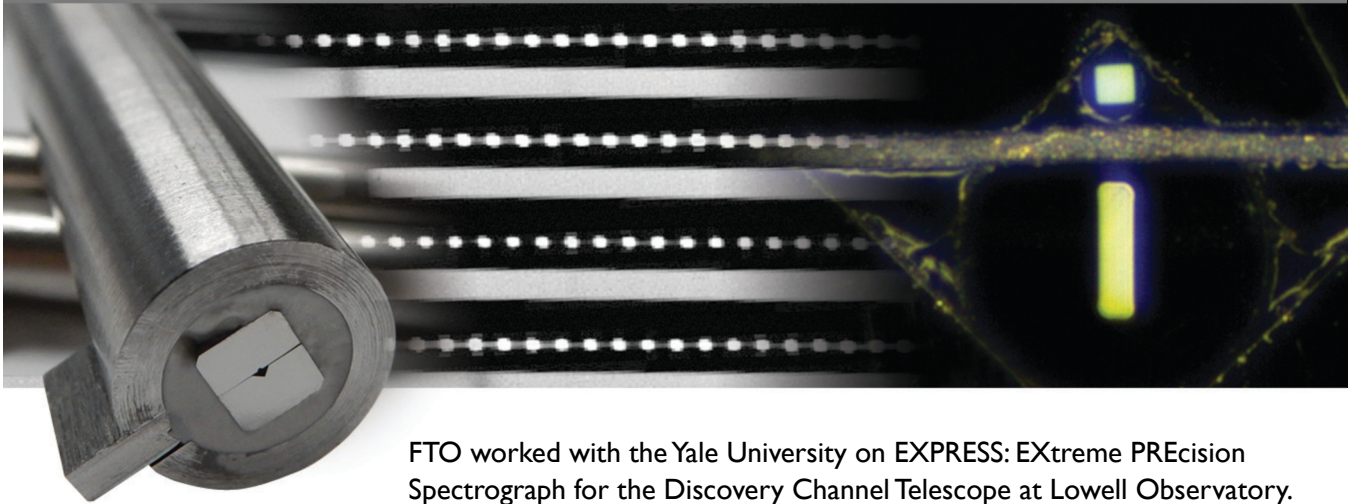


ADVANCED SPECTROGRAPH INPUT FIBER CABLE WITH INTEGRATED REFERENCE



FTO worked with the Yale University on EXPRESS: EXtreme PREcision Spectrograph for the Discovery Channel Telescope at Lowell Observatory. FTO built the fiber input system consisting of several complex fiber cables for guiding the sky and reference beams from the telescope and various calibration sources to the spectrograph input. Completion of this fiber system required the development of multiple pioneering fiber processing and assembly techniques.

FEATURES

- Precision aligned, integrated reference
- Vacuum compatible
- Mid-span vacuum feedthrough
- Low FRD assembly
- Third-party supplied pre-terminated fiber
- Non-circular fibers
- Advanced fiber processing with side polishing
- Optically isolated channels
- Anti-reflection coatings
- Stray-light limiting apertures



BENEFITS

- Design flexibility
- Co-registered reference and signal channels
- Minimized the number of fiber interconnects
- Optimized throughput



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