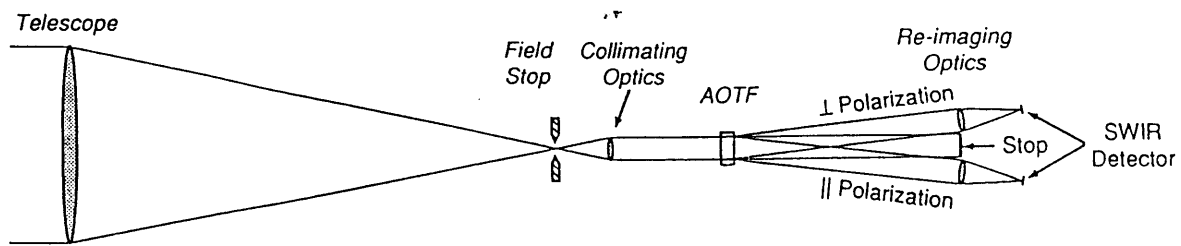


Concept of Spaceborne Lidar telescope with AOTF

H. Koshiishi

(National Aerospace Laboratory)

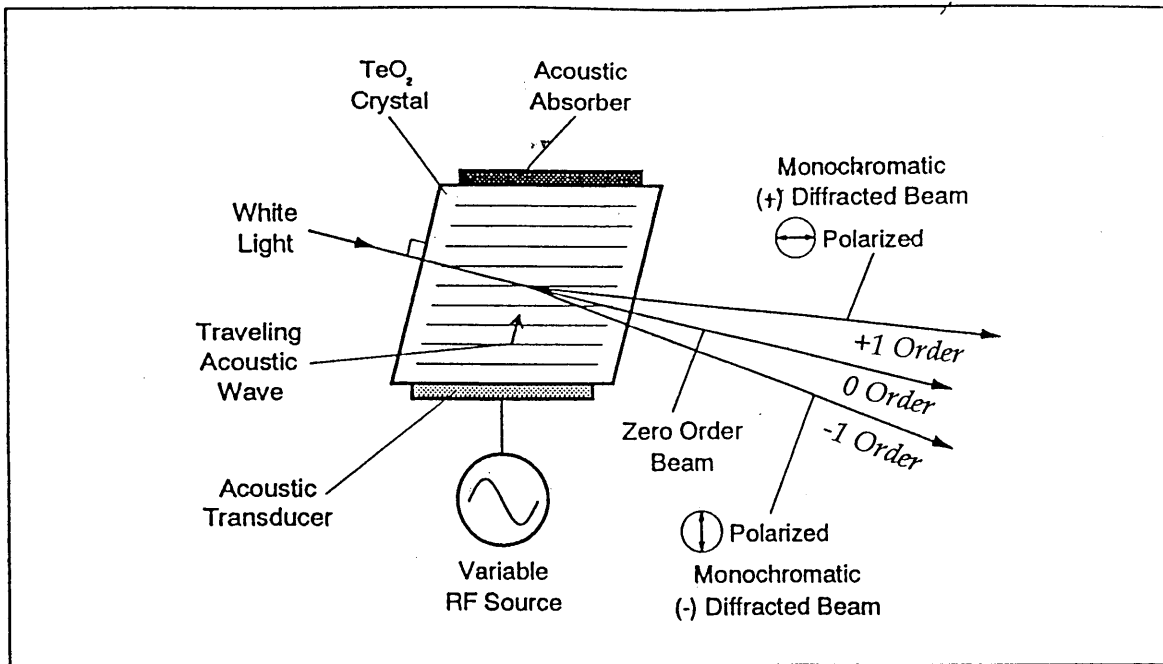


Concept of Spaceborne Lidar telescope with AOTF

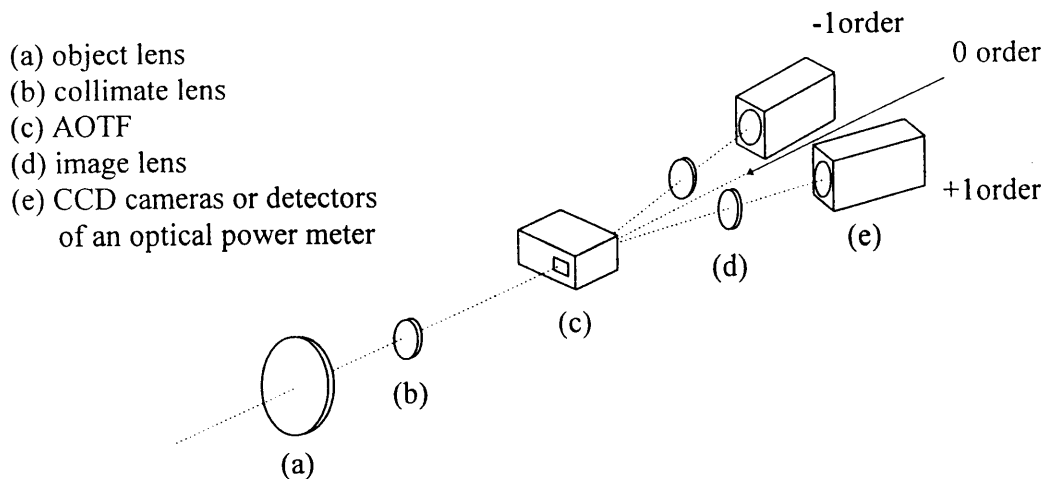
H. KOSHIISHI : National Aerospace Laboratory

Application to Spaceborne Lidar — Spectro-Polarimetry of Reflected Wave —

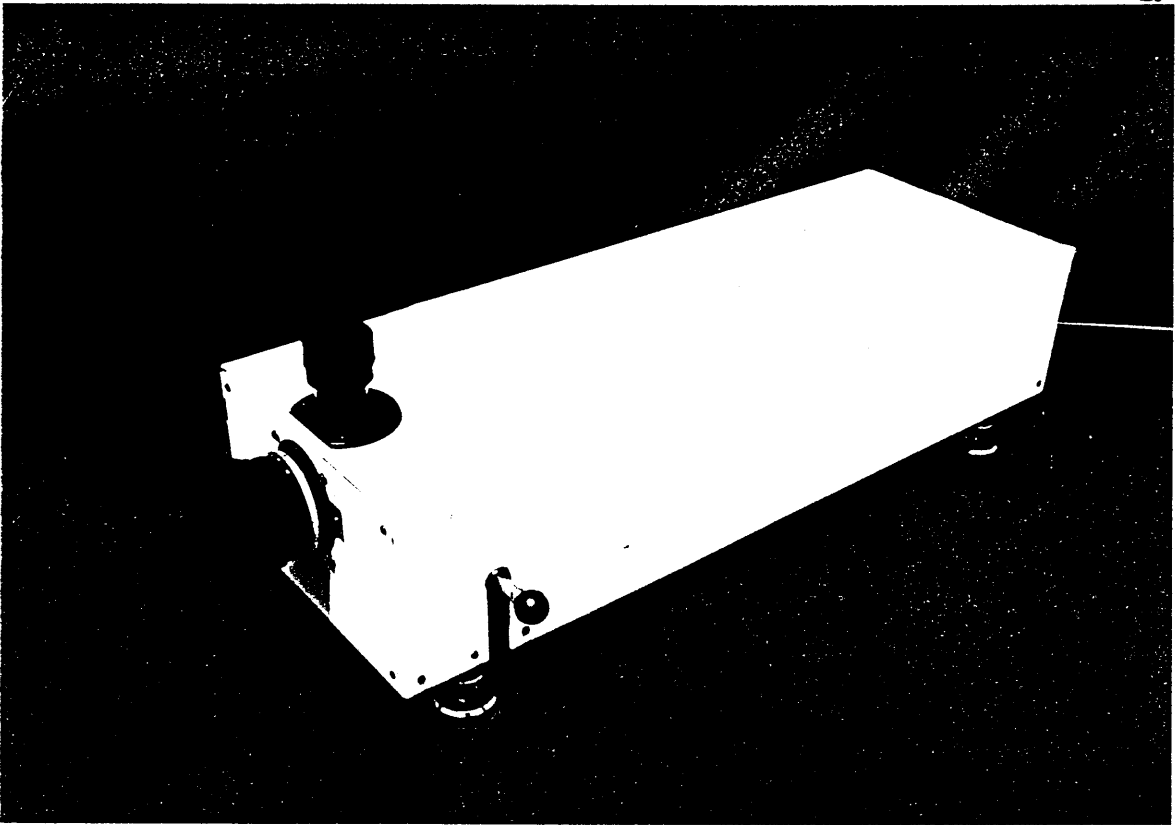
1. High spectral resolution : $< 5 \text{ nm}$
2. Simultaneous measurement of perpendicular and parallel polarization
3. No moving part
4. Small volume, weight and power consumption
5. Very fast tunability for wave length



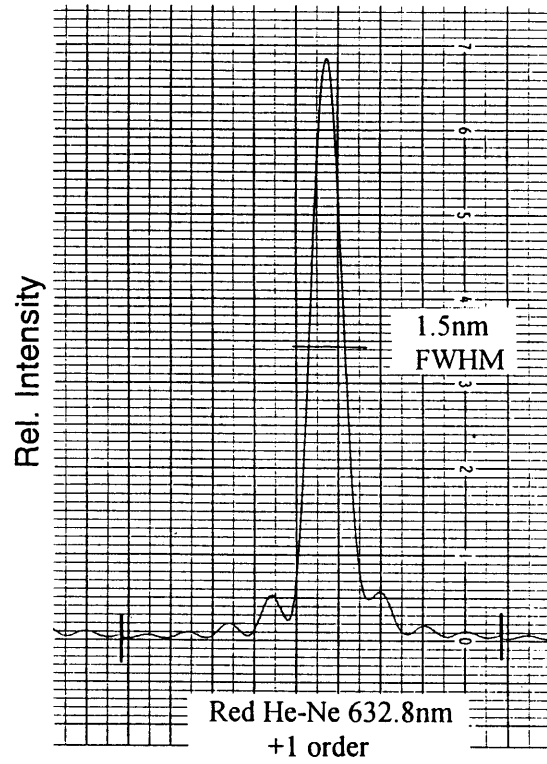
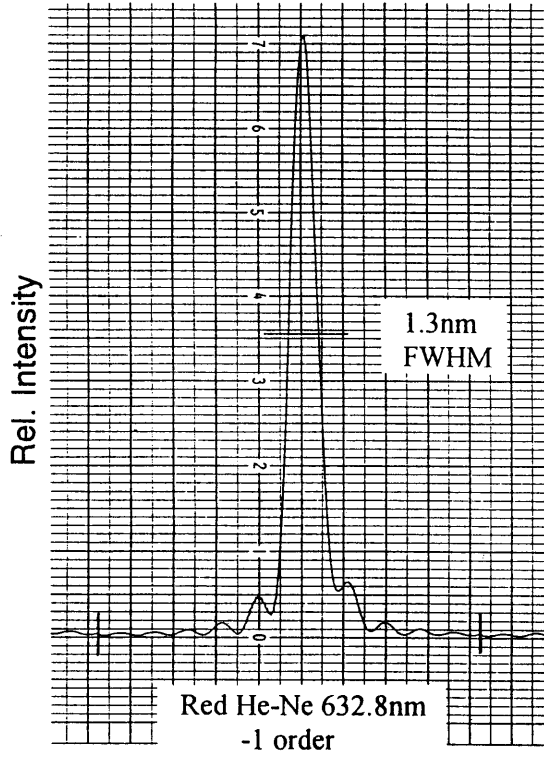
Schematic representation of a non-collinear AOTF.



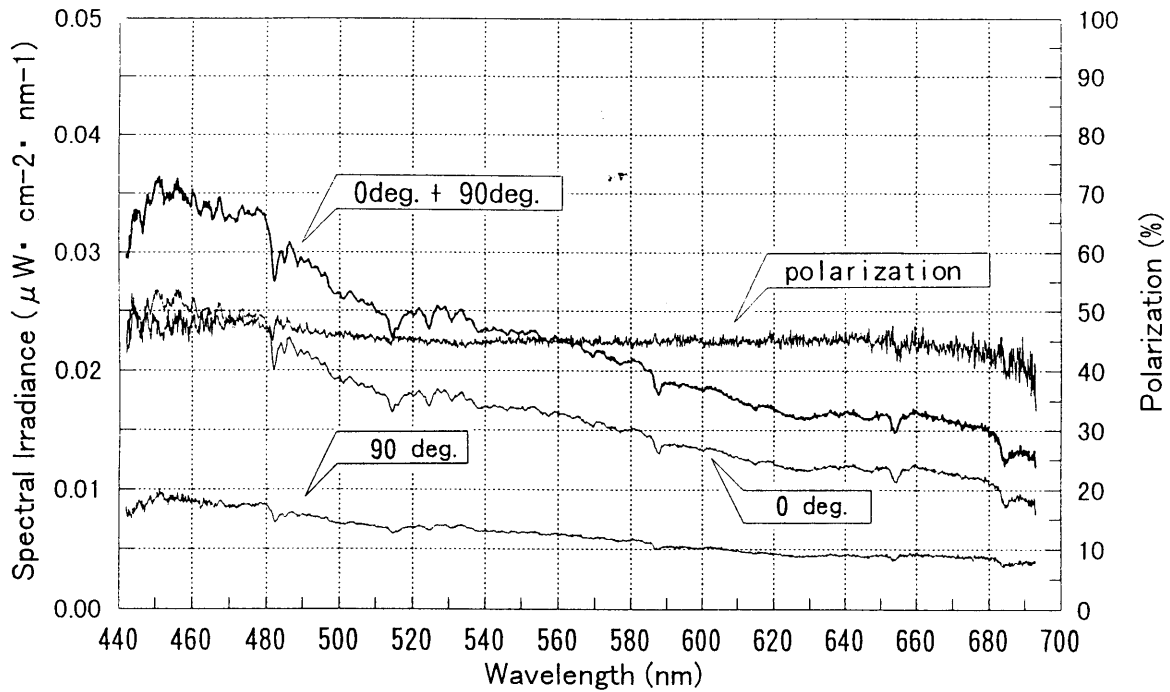
Concept of an AOTF imaging spectro-polarimeter



Appearance of the instrument



Spectral resolution (Bandpass shapes) FWHM of the AOTF device



Measurement of the sky radiation