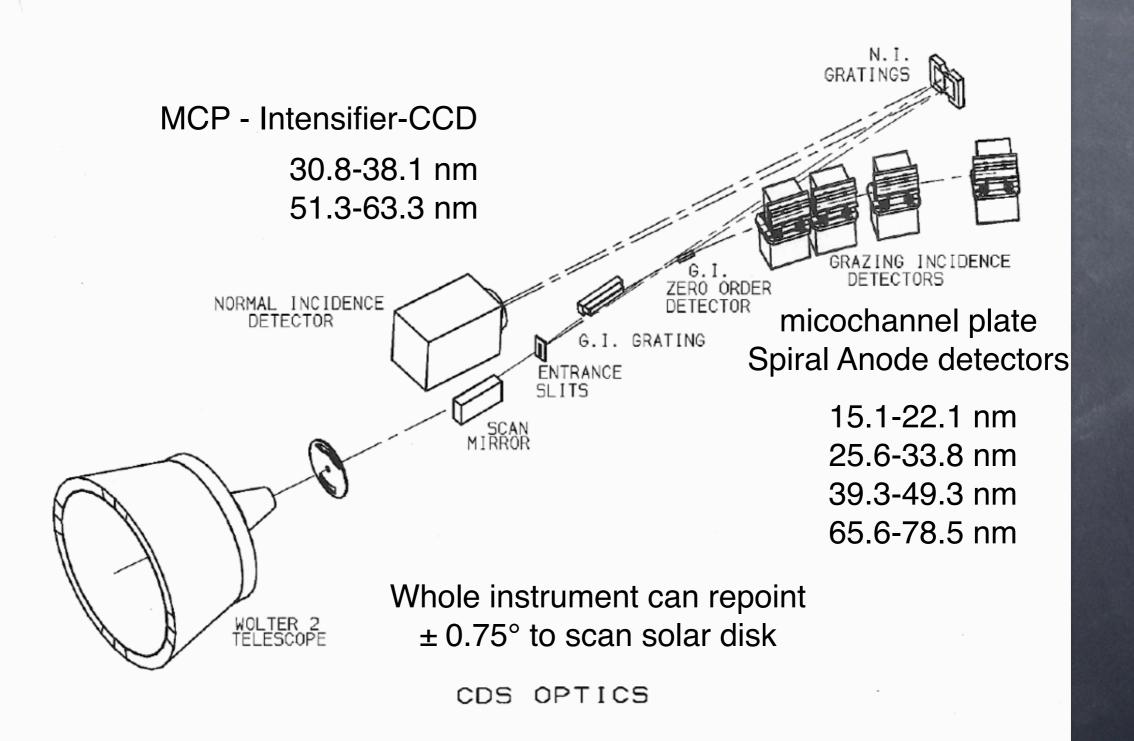
## CORONAL DIAGNOSTIC SPECTROMETER (CDS)

#### Andrew Jones

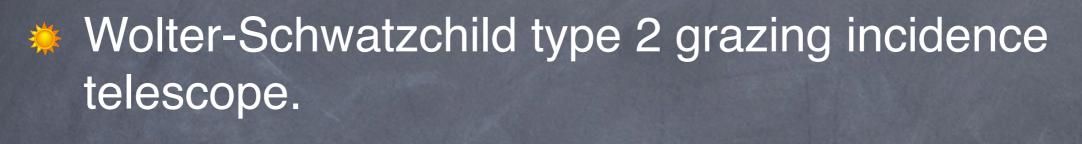
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### Optical Layout



### TELESCOPE



- 257.831 cm focal length
- 4 field of view
- 289.28 cm<sup>2</sup> effective area
- # 12.5 μm / " at slit
- 2 light-paths feed the 2 spectrometers separately, and can be individually shuttered

## NORMAL INCIDENCE SPECTROMETER

2 torroidal gratings focus onto an intensified CCD
2 stigmatic images: 30.8-38.1 nm, 51.3-63.3 nm
Scan mirror in front of slit has 2<sup>r</sup> steps

# GRAZING INCIDENCE SPECTROMETER

Single spherical grating
4 microchannel plate detectors on Roland circle:
15.1-22.1 nm, 25.6-33.8 nm, 39.3-49.3 nm, 65.6-78.5 nm
Use pinhole slits with 1" increments perpendicular to

disperion direction