



Atmospheric Imaging Spectrograph (AIS) for SDO



SDO payload instrumentation

- HMI – Helioseismic and Magnetic Imager
- AIA – Atmospheric Imaging Assembly
- SIE – Spectrometer for Irradiance in the Extreme-Ultraviolet
- WCI – White-Light Coronagraphic Imager
- UIS – UV/EUV Imaging Spectrometer
- PIT – Photometric Imaging Telescope
- HVMI – Helioseismic and Vector Magnetic Imager

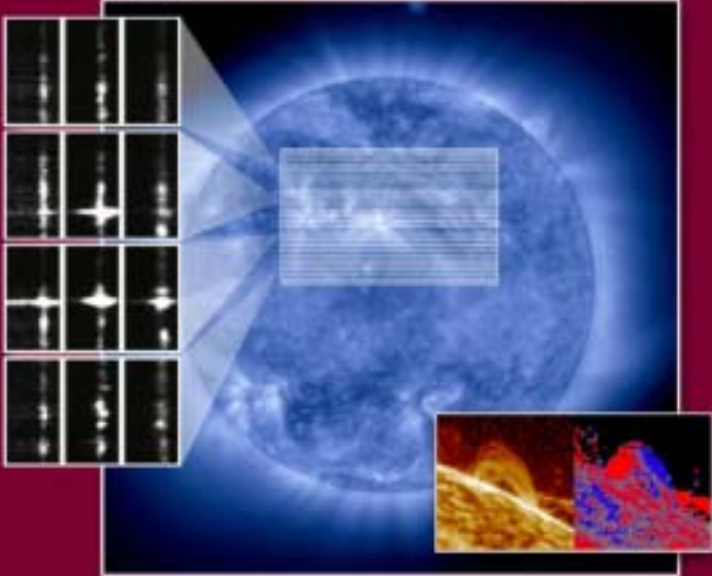
← AIS or NEXUS





Atmospheric Imaging Spectrograph (AIS) for SDO



**Atmospheric Imaging Spectrograph (AIS)
for the
Solar Dynamics Observatory**

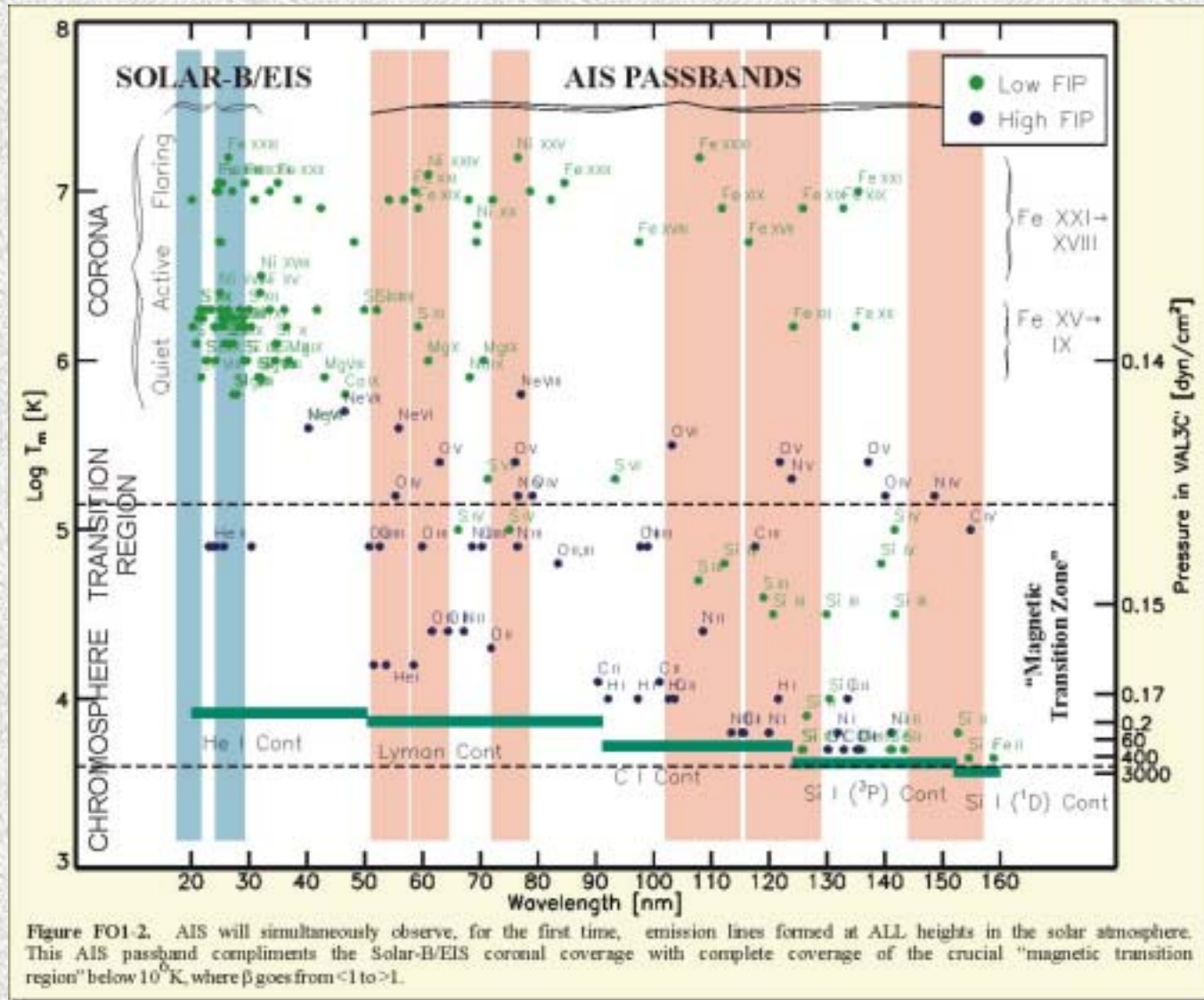


Submitted to the National Aeronautics and Space
Administration in response to AD 02-OSS-01

	<p>Principal Investigator: Dr. Donald M. Hassler Southwest Research Institute April 24, 2002</p>	
---	--	---



Atmospheric Imaging Spectrograph (AIS) for SDO

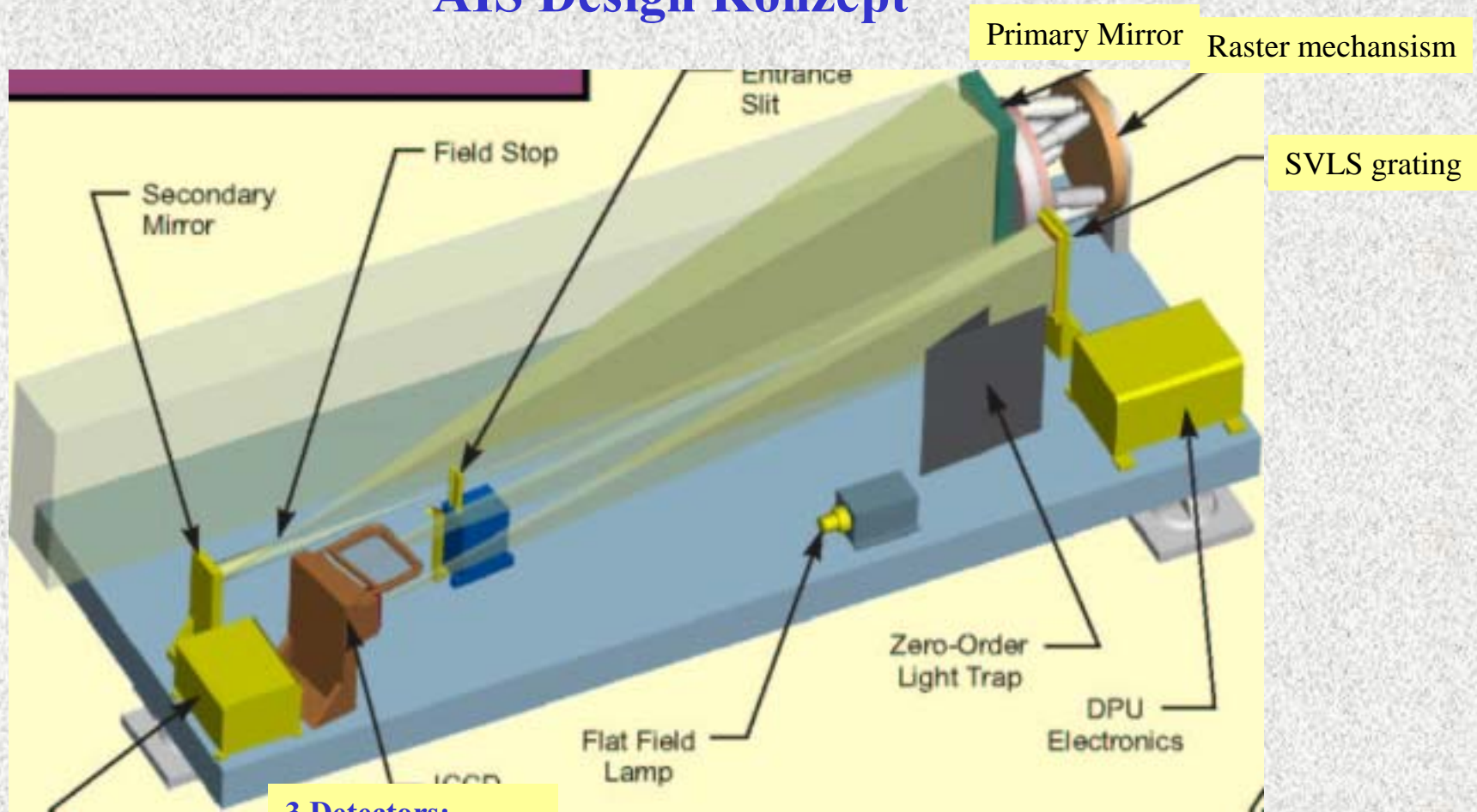




Atmospheric Imaging Spectrograph (AIS) for SDO



AIS Design Konzept



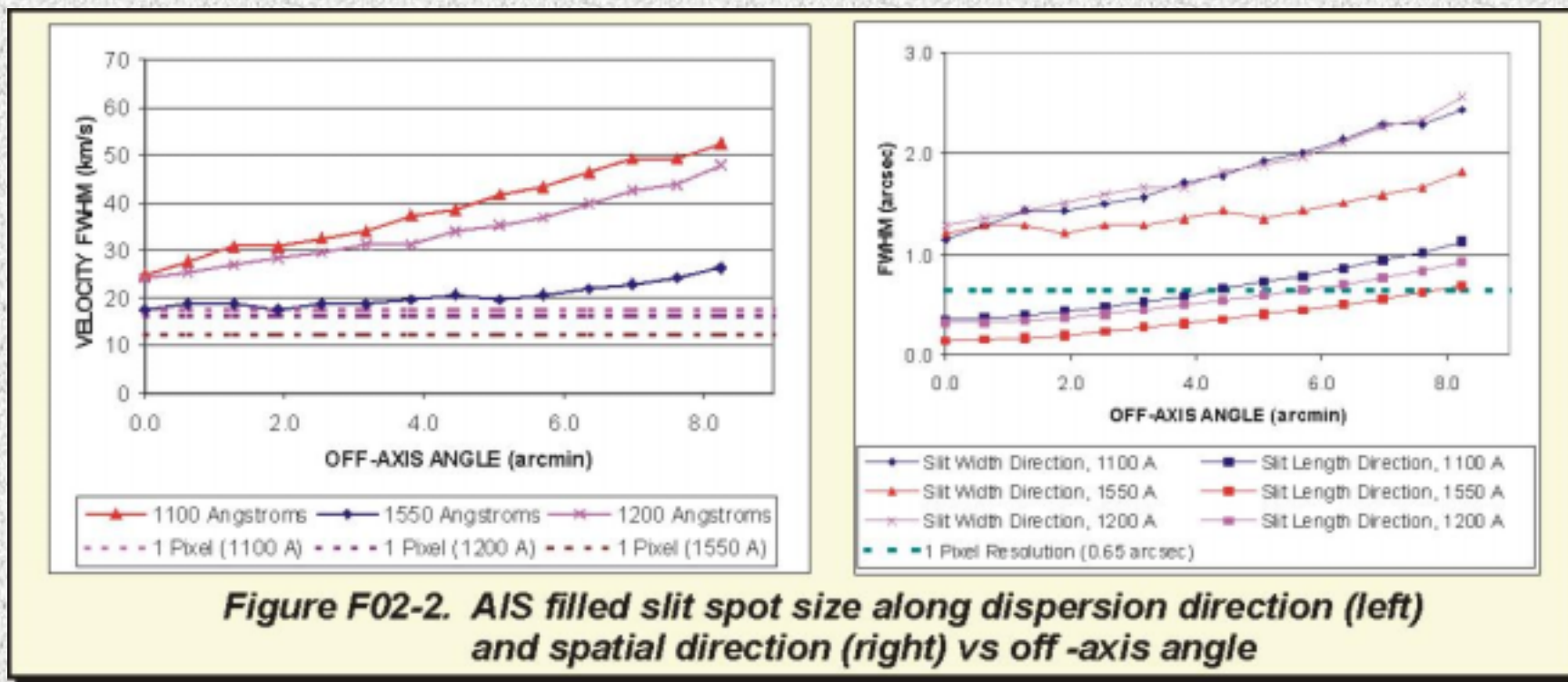
**3 Detectors:
102 nm bis 155 nm**



Atmospheric Imaging Spectrograph (AIS) for SDO



AIS spectral and spatial resolution

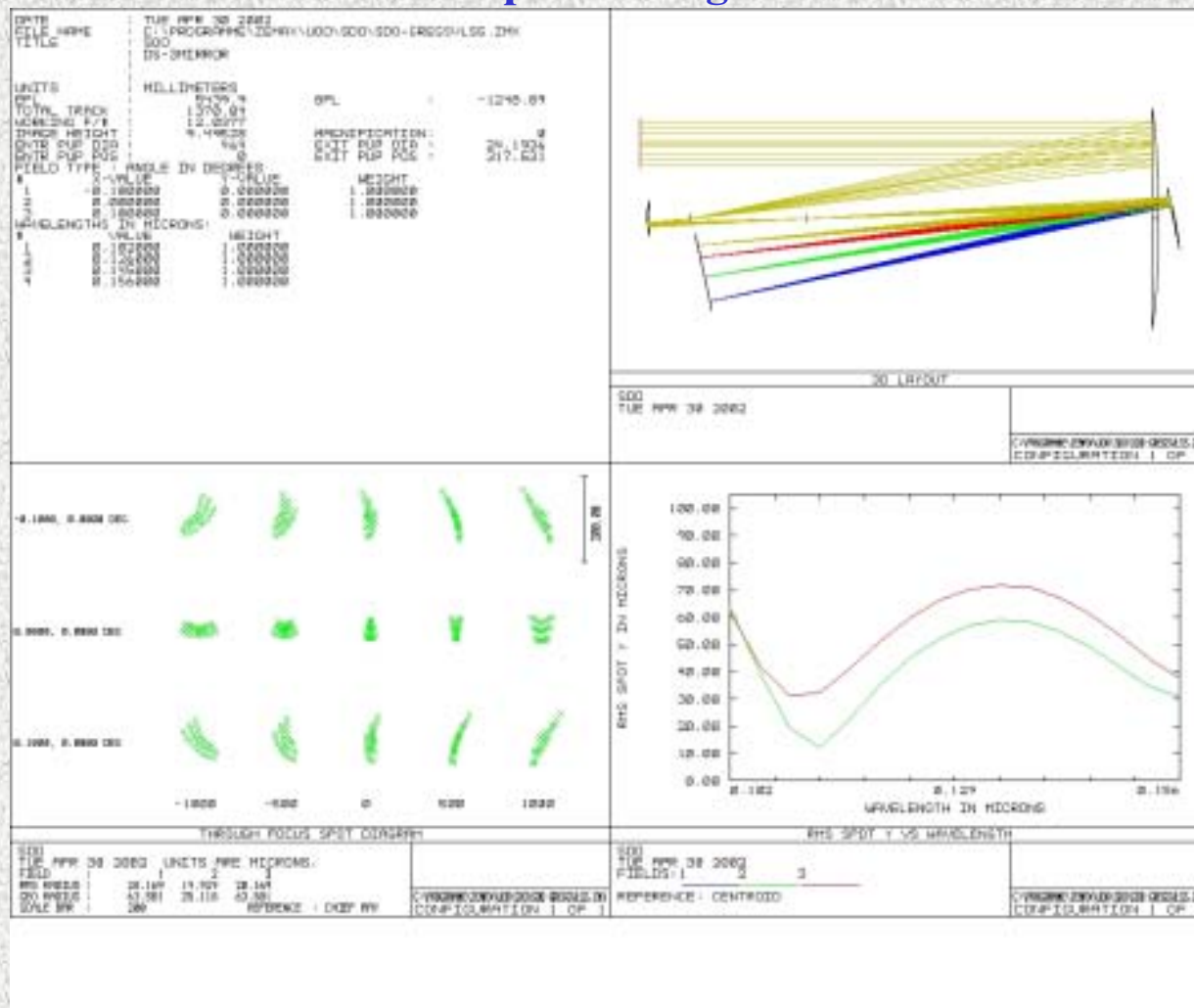




Atmospheric Imaging Spectrograph (AIS) for SDO



AIS optical design





Atmospheric Imaging Spectrograph (AIS) for SDO



AIS Optical design

