Chandra: An X-Ray Vision of Star Formation Scott J. Wolk CfA With a lot of help...

About this Meeting

- What Are the "Three Great Observatories"
- What is the "White Paper"?
- About the splinter sessions
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Key Questions in Star Formation all 3 Great Observatories can help Address

- Goal: Understand how stars are assembled from molecular material to the zero-age main sequence
 Use a multiwavlength approach:
- Process:
 - Identify objectives, key measurements and required observations.
 - These need not be wholly reliant on the Great Observatories
- Rotation and Dynamos
- Disk Evolution
- Populations and their evolution
- Others?

Observations which Bridge us between facilities

- Extant
 - Chandra
 - Spitzer
 - HST
 - Large Optical
 - Keck, Gemini, Magellan
 - Single Dish
 - CSO, JCMT, IRAM
 - Interferometers
 - VLA, BIMA, OVRO, SMA

- In Development
 - Con-X
 - SOFIA
 - JWST
 - Herschel
 - CARMA
 - ALMA
 - Keck interferometery
 - GMT
 - VLA upgrade
 - What about UV observations?





































Telescope System

- High Resolution Mirror Assembly:
 - 4 nested pairs of grazing incidence paraboloid and hyperboloid mirrors Length: each 83.3 cm (32.8 in) long
- Weight: 956.4 kg (2,104 pounds) total
- Focal Length: 10 meters (32.8 ft)
- Outer Diameter: 1.2 meters (3.9 ft)
- Field of View: 1.0 degree diameter
- Ang. Resolution: 0.5 arcsec
- Altitude Control: 6 reaction wheel control 2 inertial reference units
- Aspect Camera: 1.40 deg x 1.40 deg field-of-view
- Pointing Stability: 0.25 arcsec (RMS) radius over 95% of all 10 second periods
- Pointing Accuracy: 30 arcsec 99% of viewing time
- Remarks: Mirrors have an effective area of 400 sq. cm. @1 keV; 600 A iridium coating

