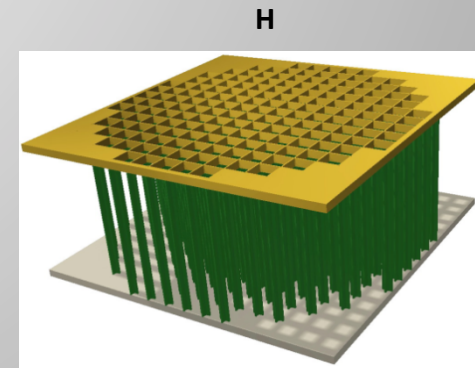
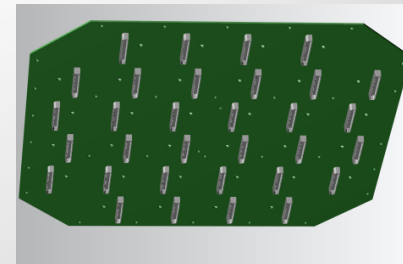
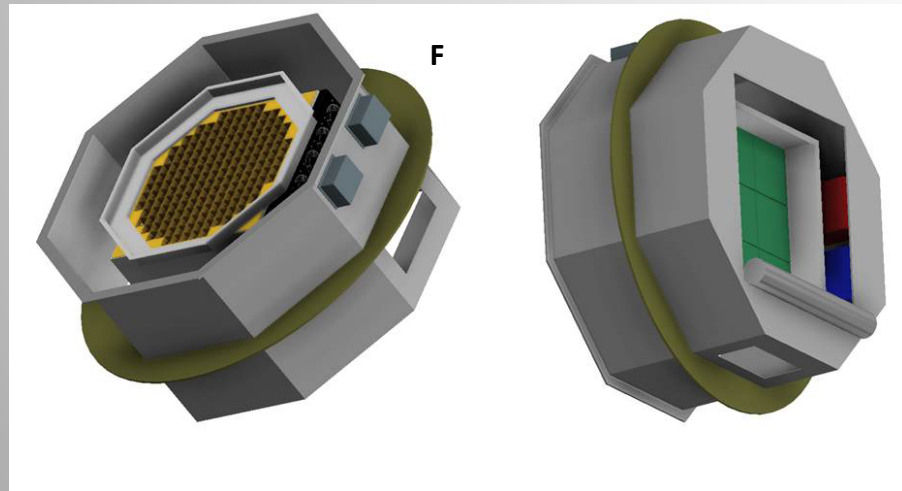
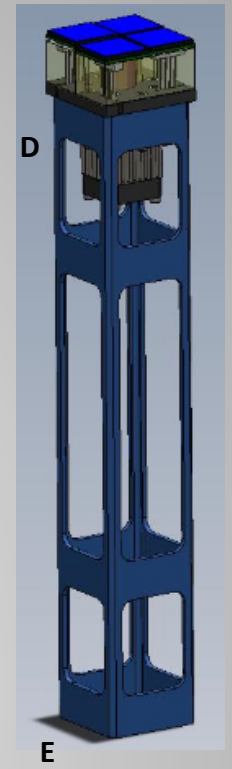
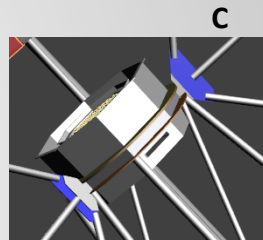
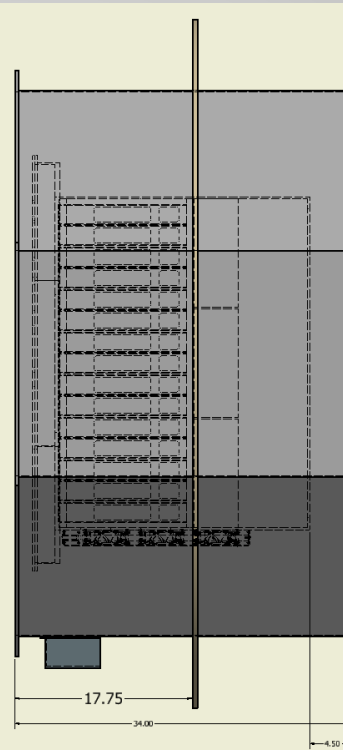
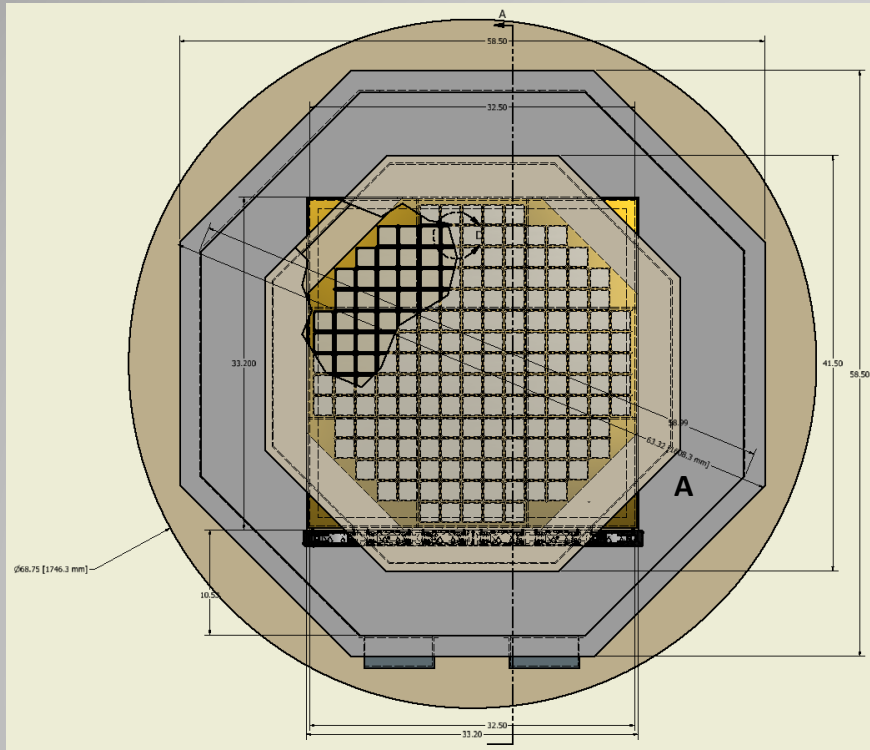


C T A Camera Development

Mechanical

Washington University September 9 – 10 2013

Rich Northrop University of Chicago



Major Mechanical Concerns

Concerns –

200 Micron Location Demand on Sensors

Final Camera Size (based on new shadowing analysis)

Bulkhead Design & Details

FEE to Cage Mounting

Sensor/Cage/Bulkhead Mounting (location & locking)

Thermal Impact on Rack & Components

Camera Positioning - Z motor driven, X & Y manual

Mounting Flange Design

Need to Know –

Bulkhead Mounting/Penetration Requirements

FEE Details

Sensor Details

Final Shadowing Studies

Telescope/Camera Mount Ring Details

Camera Access

Solutions –

Final & Exact Bulkhead Layout

Precision Location & Locking Mechanism for Module/Sensors

Mounting Design for Cage/FEE/Bulkhead

Camera X Y Z Positioner Design