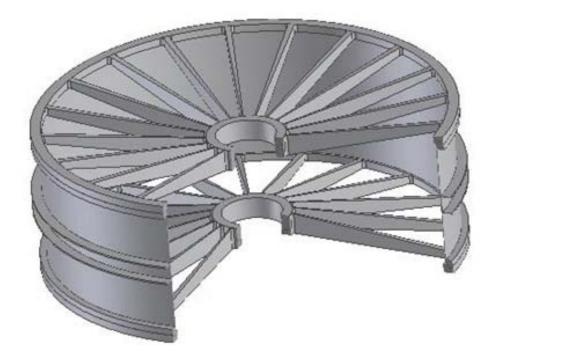
The X-Ray Optics for the High Angular Resolution Imager (HARI)

Reported by Martin C. Weisskopf for the XENIA Team

Basic Parameters (from EDGE design)

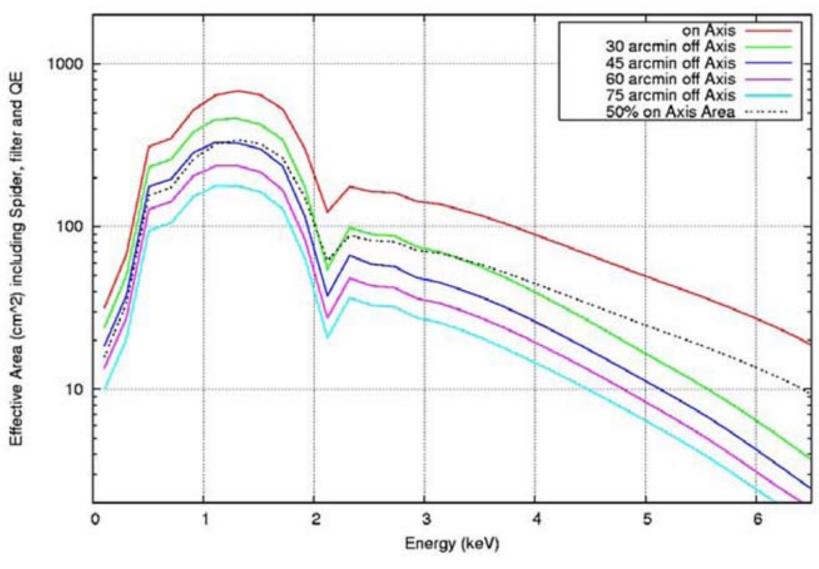
Focal length (cm)	275
Max diameter (cm)	75
Min diameter (cm)	21
Max segment length (cm)	10
Min segment length (cm)	4.75
Baseline design	
Shell thickness (cm)	0.2
Number of shells	68
Goal design:	
Shell thickness (cm)	0.1
Number of shells	94

Housing – (EDGE)

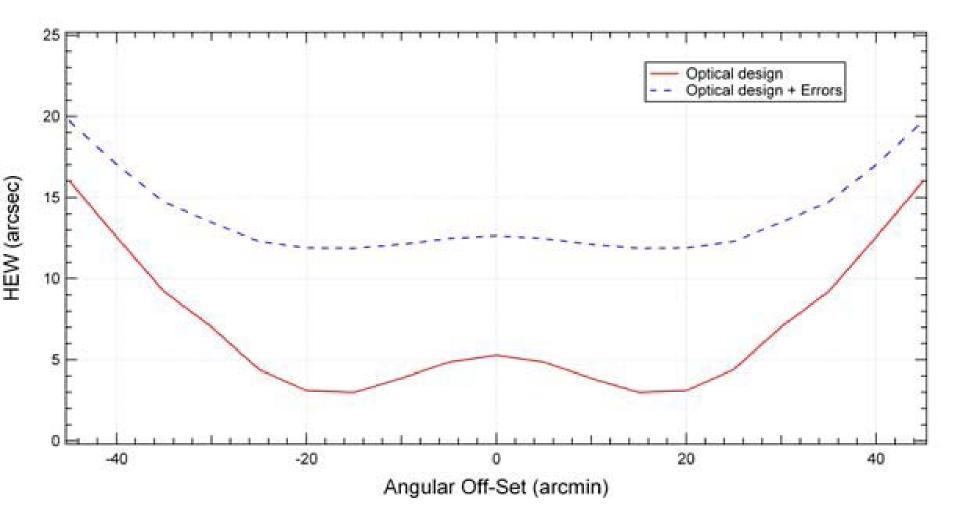




Effective Area vs Energy

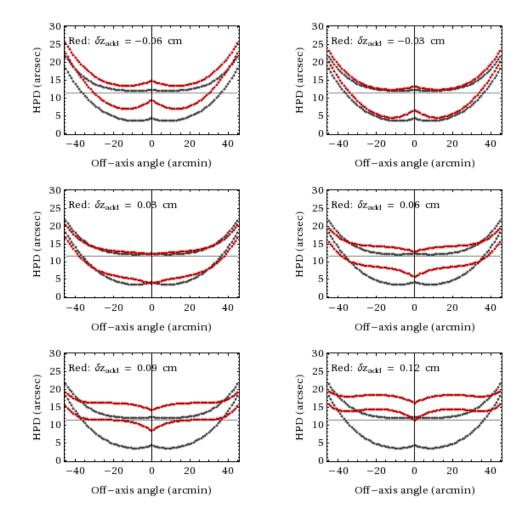


Baseline Design – HEW vs θ





Study of Detector Offsets and Tilts



- One is still designing the detector-optics combination in a somewhat ad-hoc way. Our goal is to be able to design HARI around the scientific performance and let the latter guide the system parameters.
- This does not mean that the current design is "bad"!
- But we need an agreed upon optimization criterion!

THIS IS YOUR HOMEWORK PROBLEM