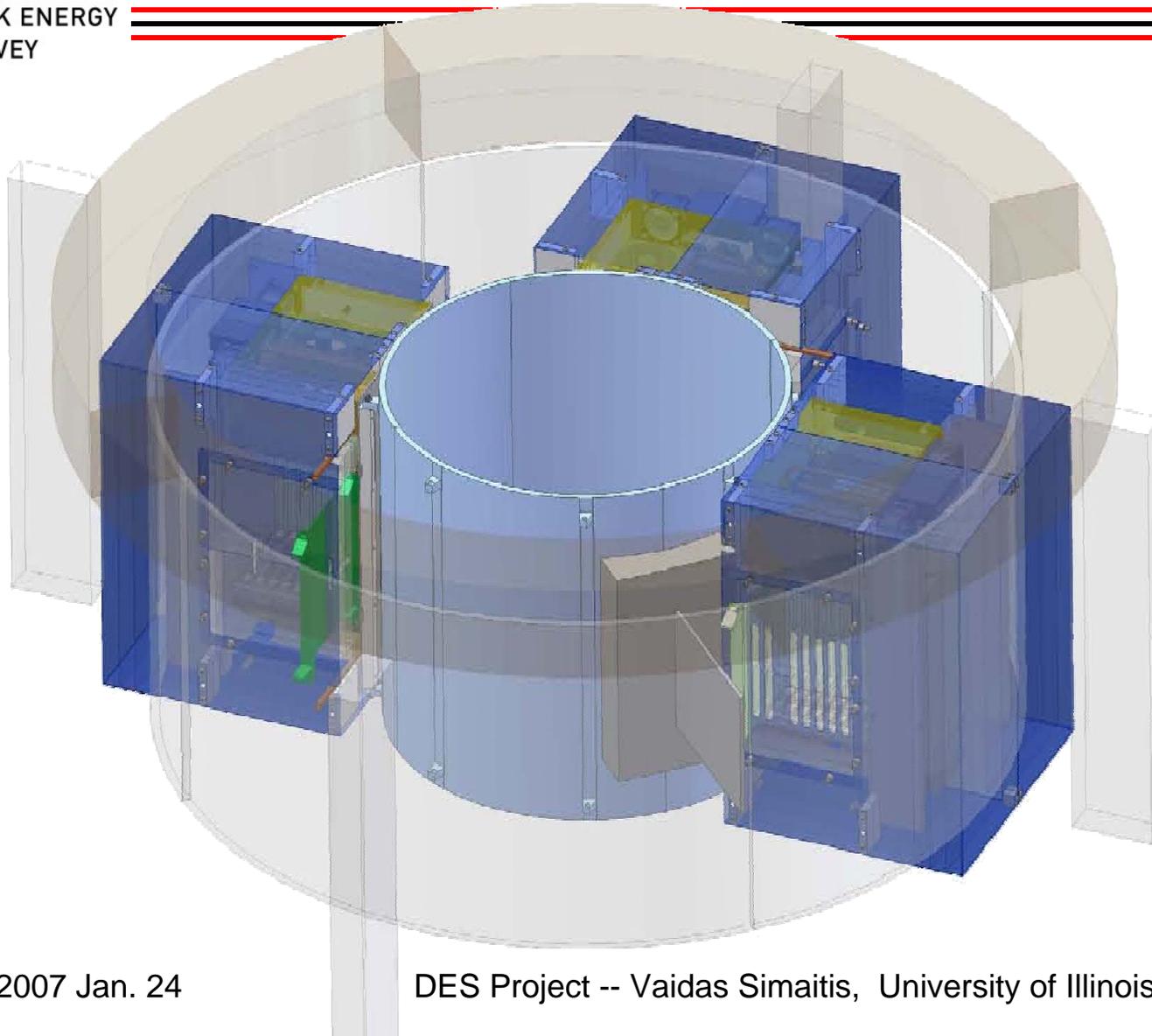




DARK ENERGY  
SURVEY

# Crate Insertion thru Ring



After  
Assembly

Isometric  
View  
with Heat  
Shields



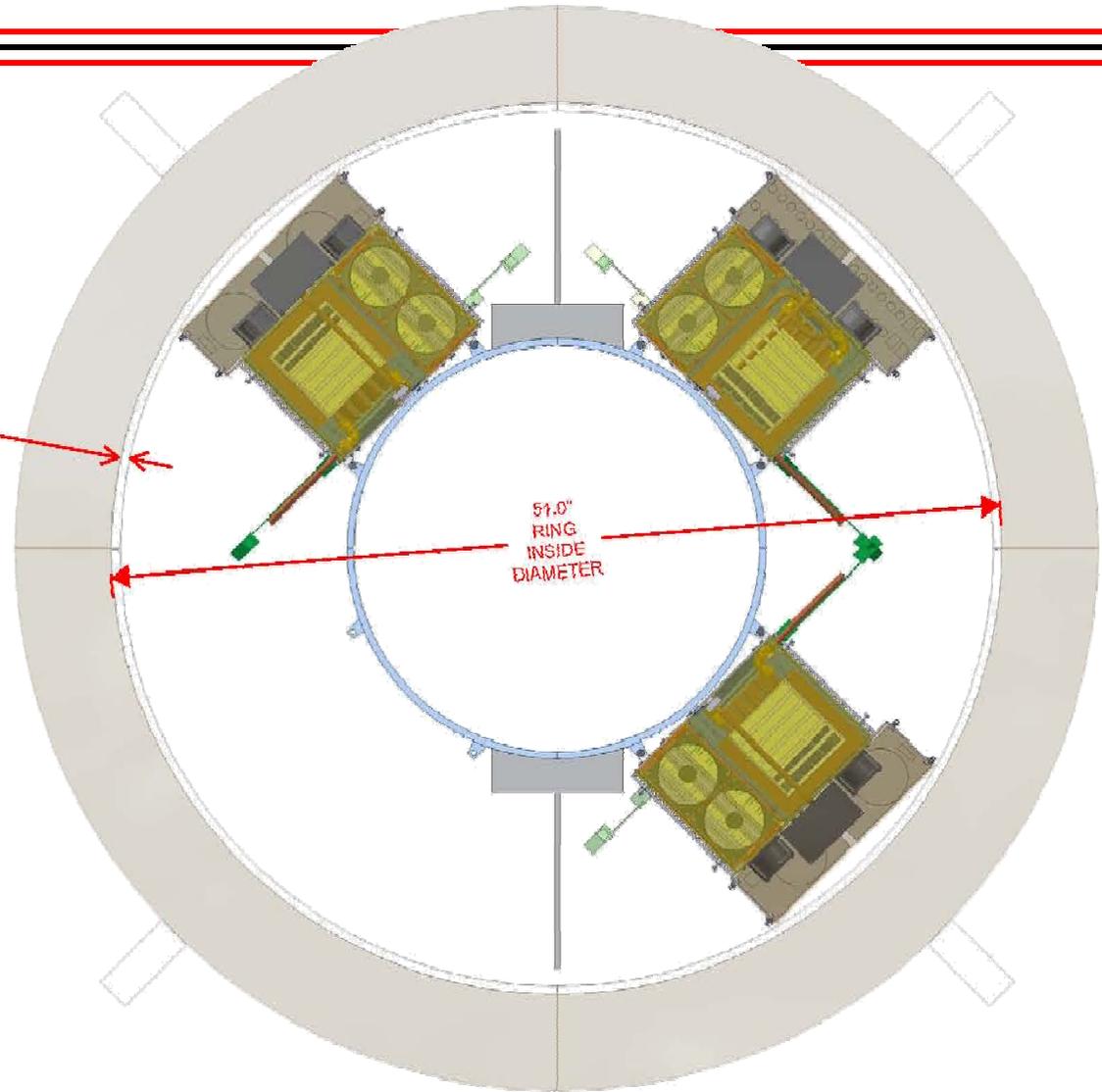
# Crates – no heat shields

DARK ENERGY  
SURVEY

GOAL WAS TO KEEP  
THE OD OF THE CRATES  
TO 50.0" OR LESS

0.5"  
RADIAL  
CLEARANCE  
ALLOWANCE

INNER  
RING ID  
= 51.0"

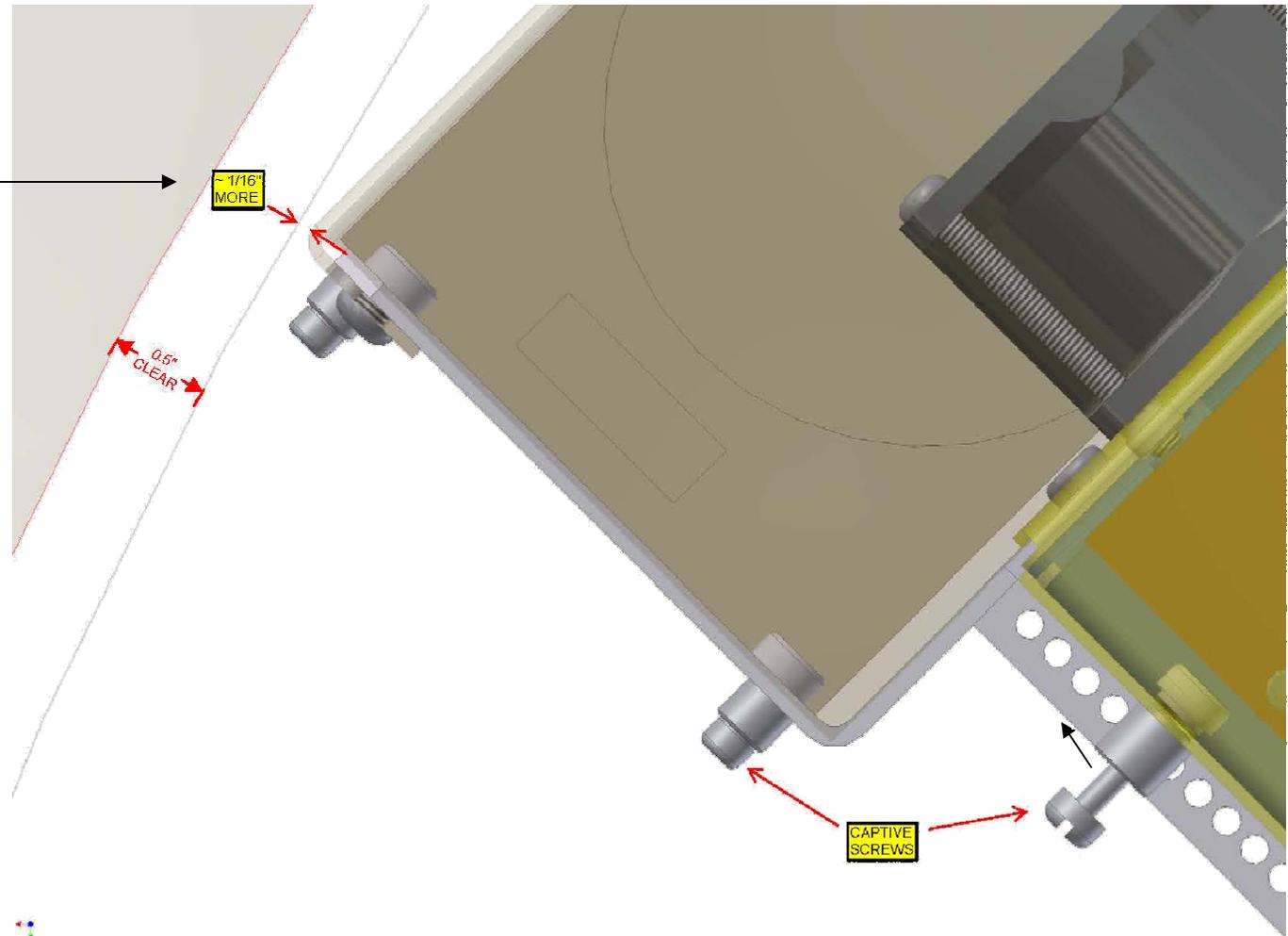


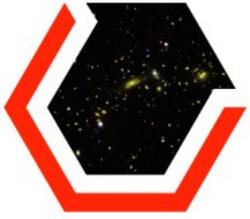


DARK ENERGY  
SURVEY

# Closeup of worst case

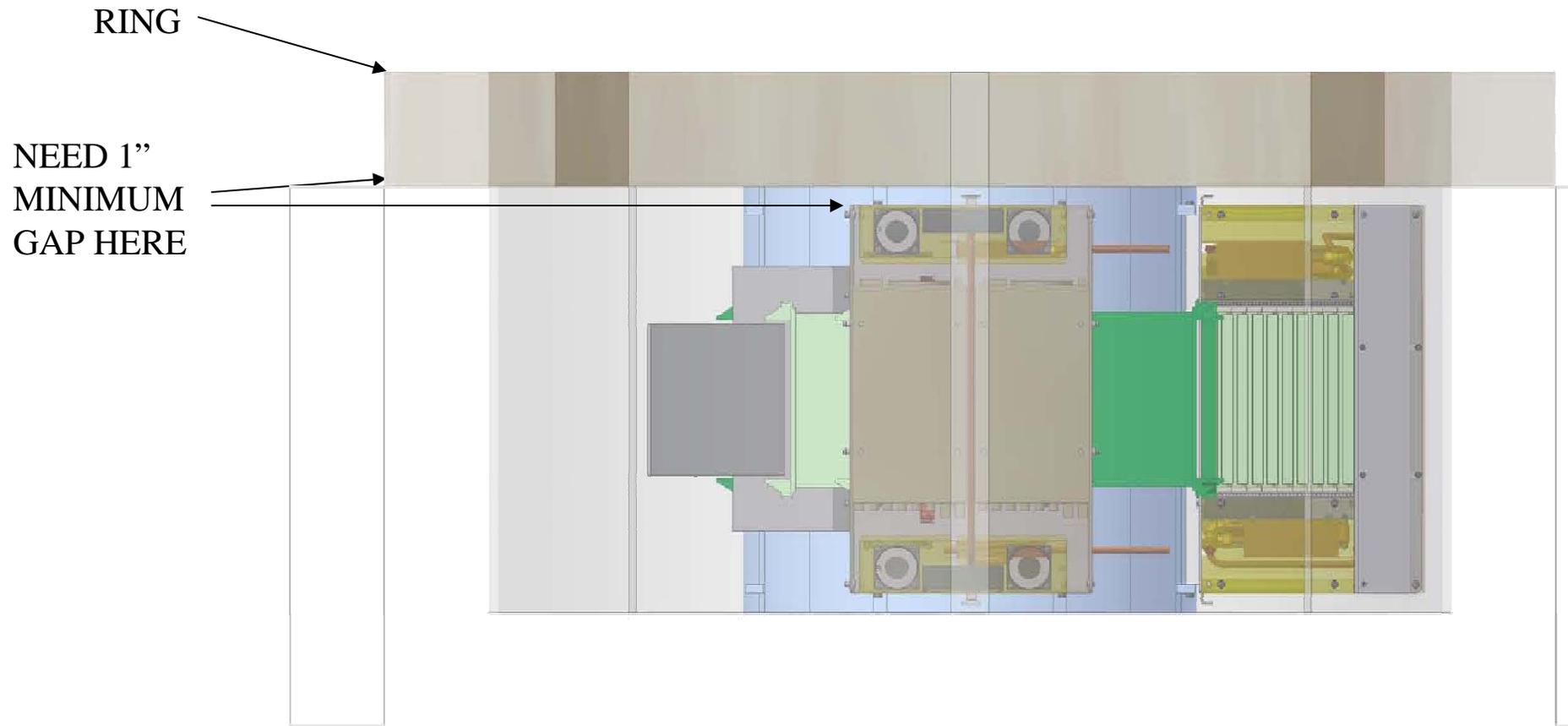
WOW! A  
WHOLE  
1/16" TO  
SPARE!!!





DARK ENERGY  
SURVEY

# Side View



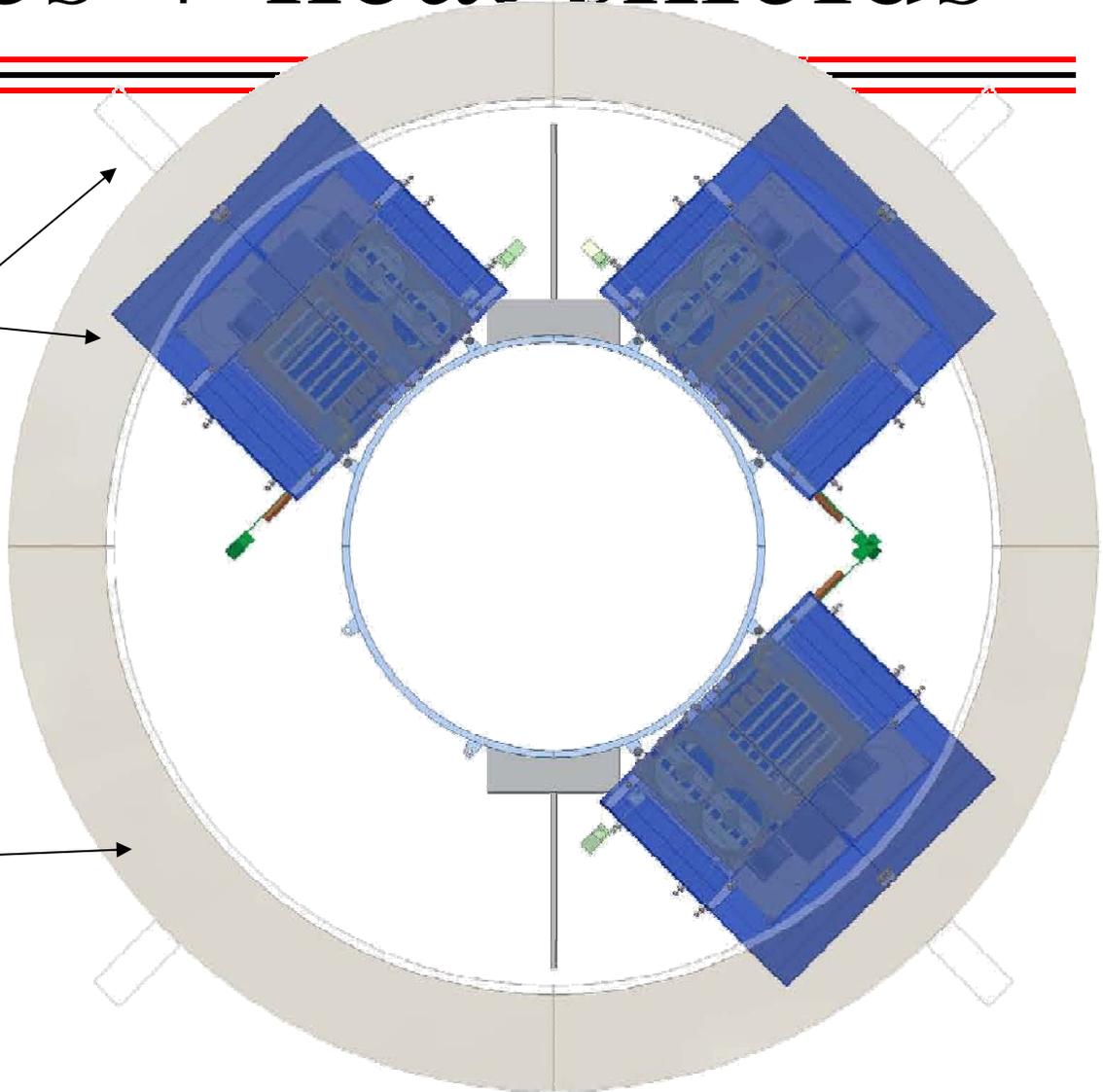


DARK ENERGY  
SURVEY

# Crates + heat shields

HEAT SHIELD CONSISTS  
OF 2 CLAMSHELLS  
WHICH SPLIT IN THE  
MIDDLE AND INSERT  
OR PULL OUT AROUND  
THE SUPPORT RIBS

HEAT SHIELDS  
ARE IN THE  
SPACE **BEHIND**  
THE RING





# Side View w/Shields

DARK ENERGY  
SURVEY

