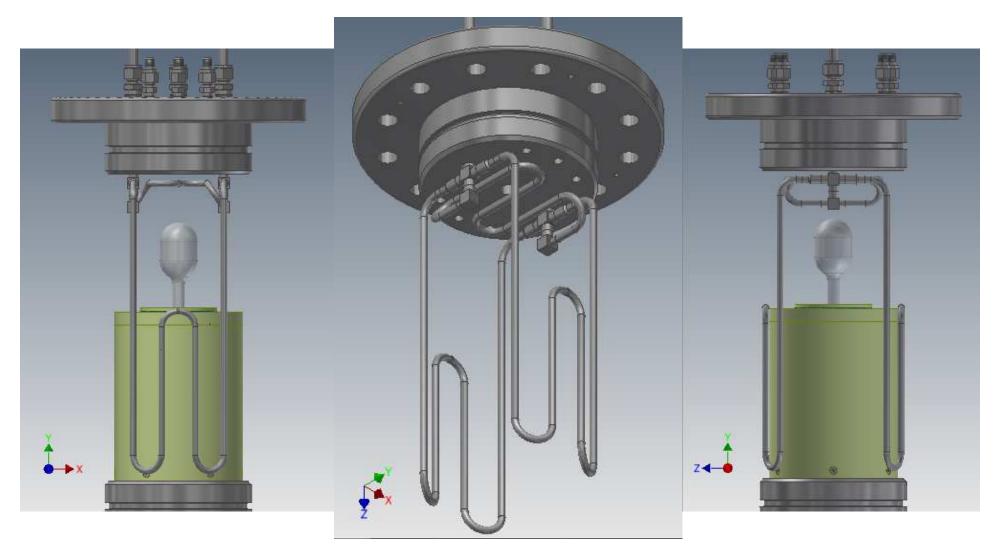
# Bubble Chamber Design and Construction Progress

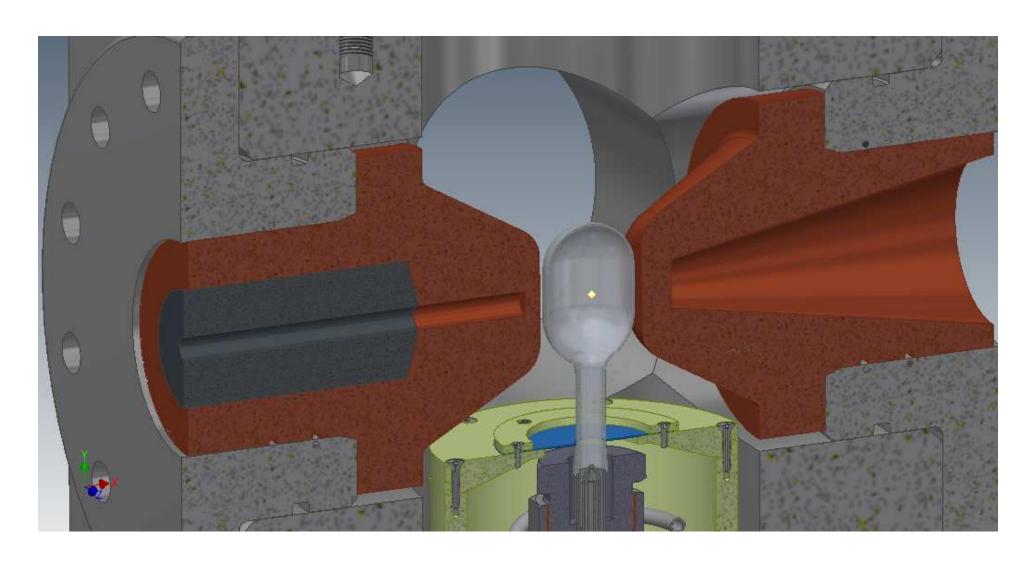
6 April 2016

B. DiGiovine

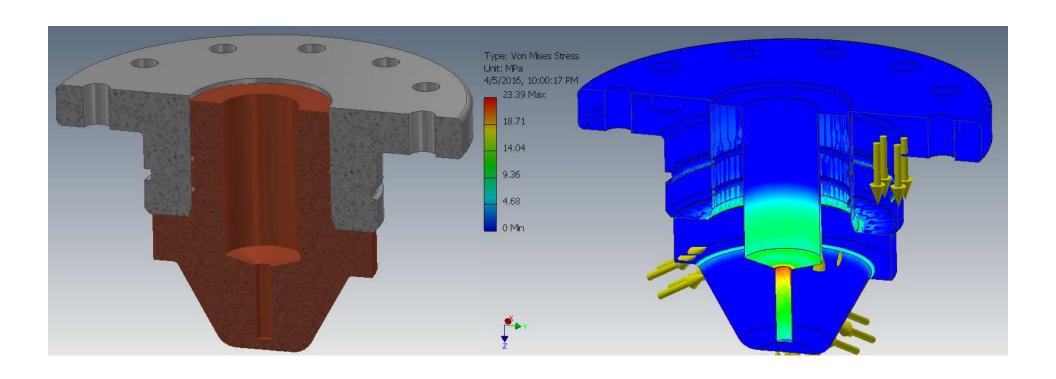
# Hydraulic Heat Exchanger



#### **Beam Ports and Collimator**

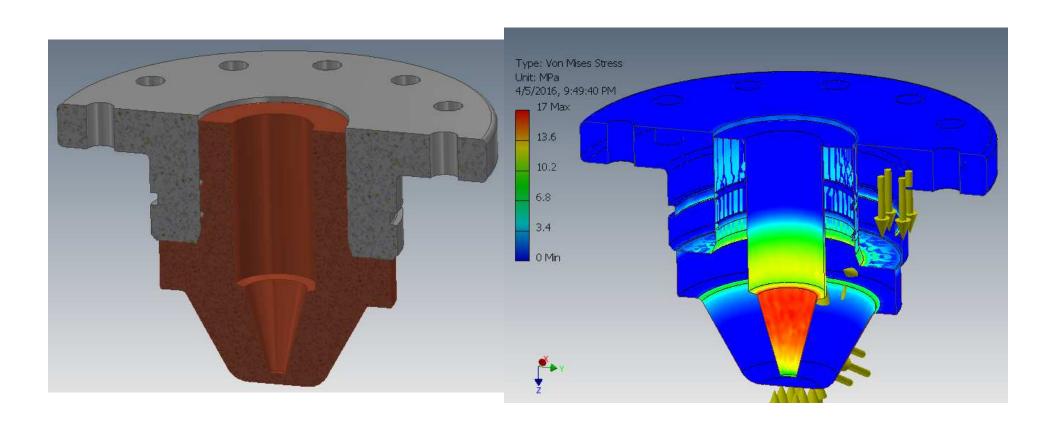


#### Beam Entrance Port FEA

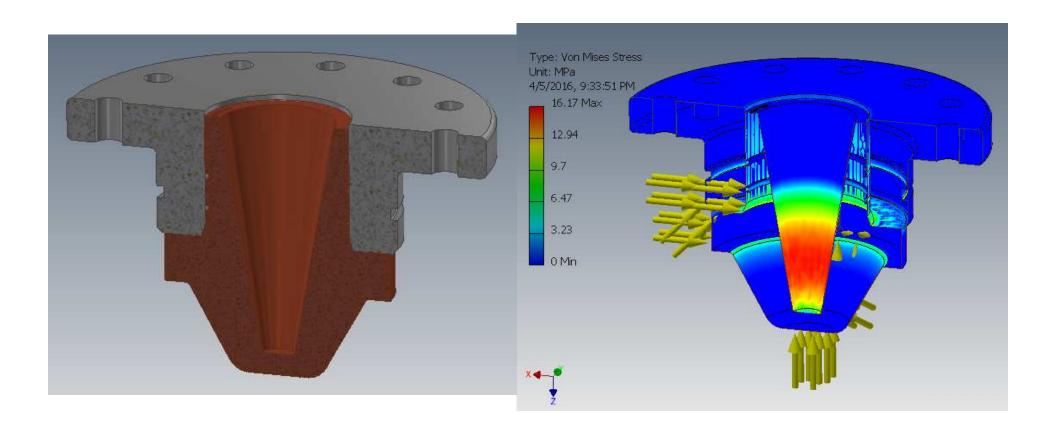


Fatigue?

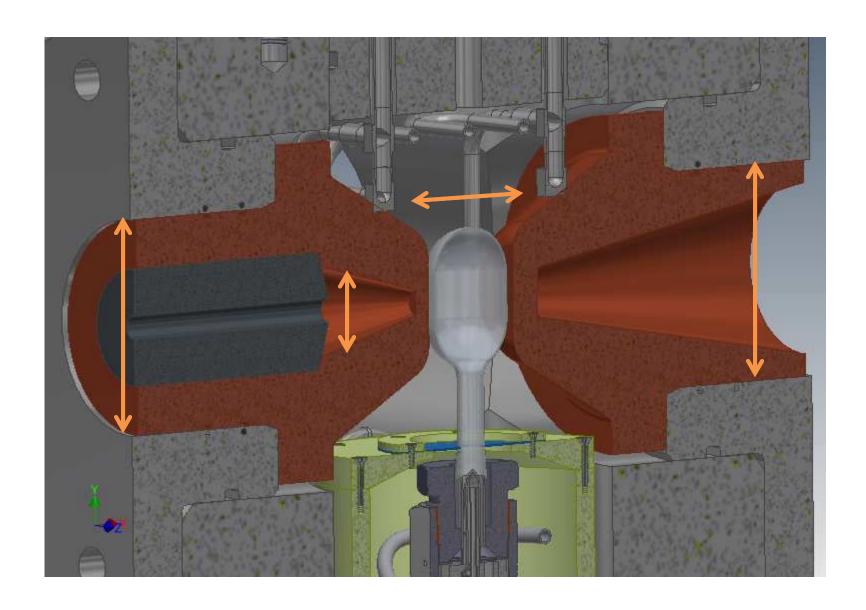
#### Beam Entrance Port FEA



#### Beam Exit Port FEA



# Interference and Compromises

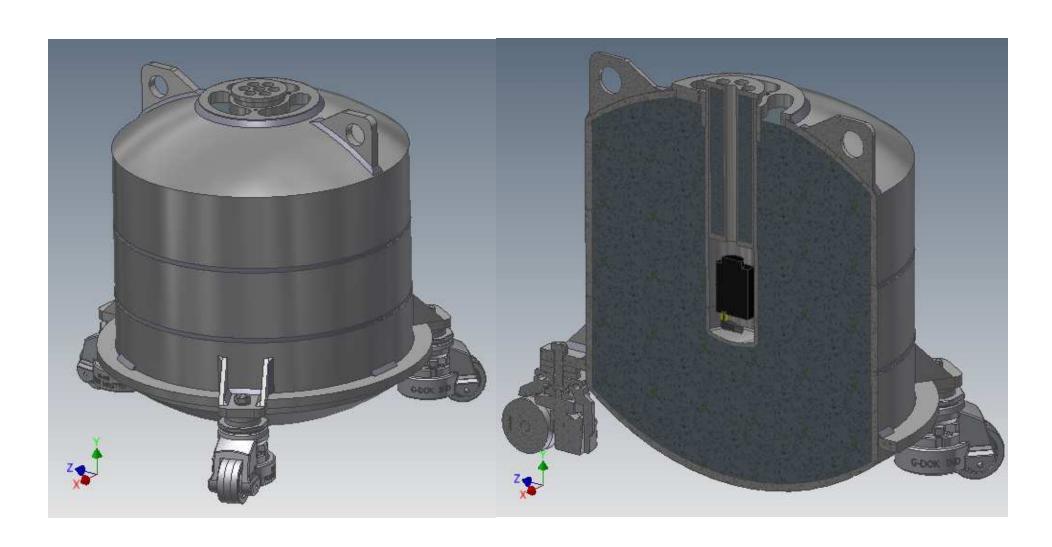


#### **Beam Ports**



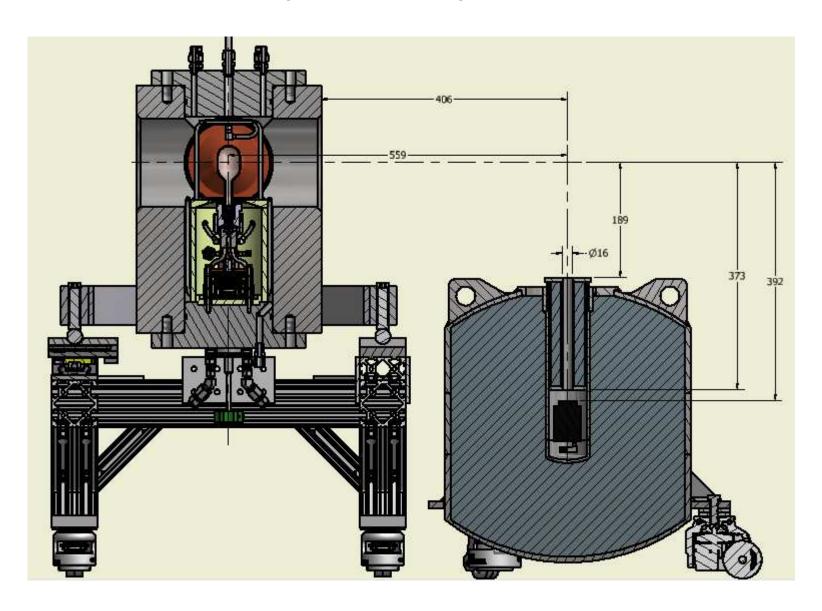


### Camera Cask



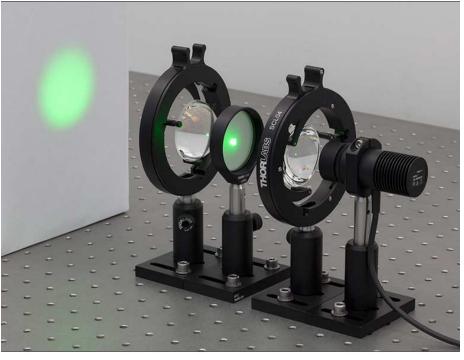
## Camera Cask





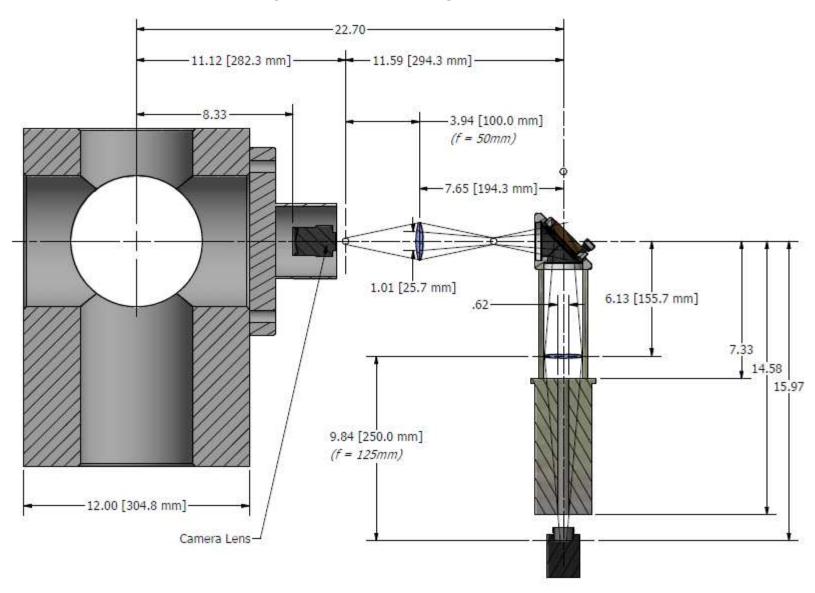
#### Quantum Efficiency

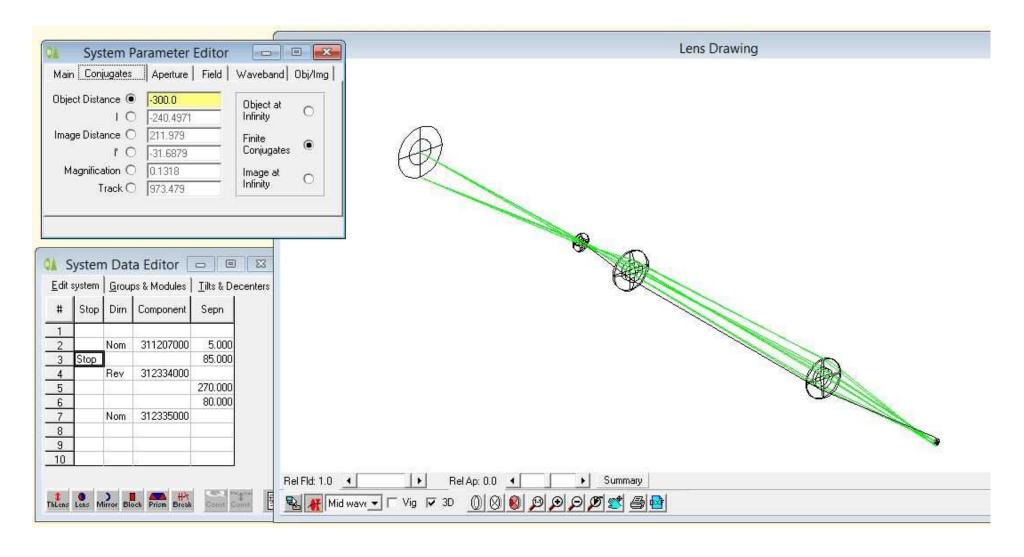




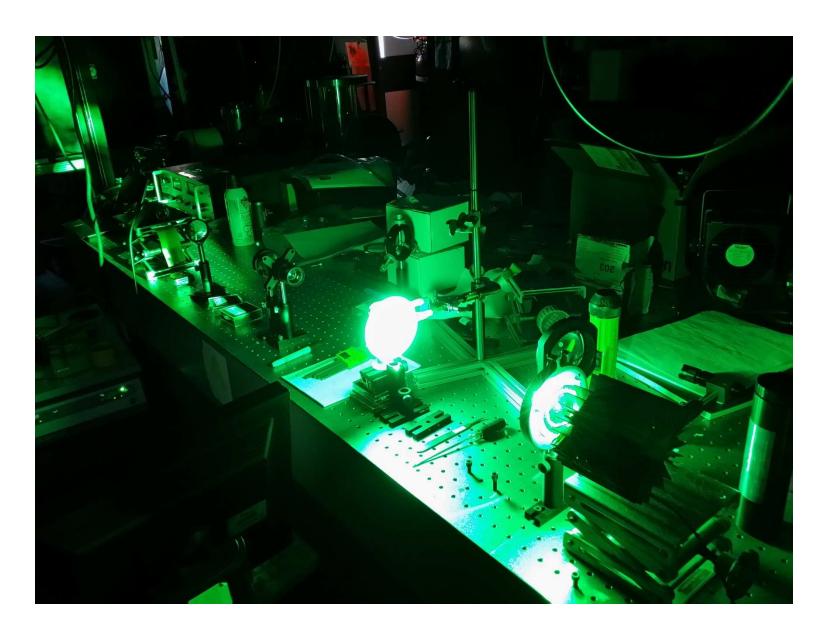
#### Changes to Back Lighting System

- QE of Sensor Peaks Around 525nm
- Large IR Component of Old White LED Spectrum = Unnecessary Heat Load
- Exploring Implementation of Aspheric Condenser System

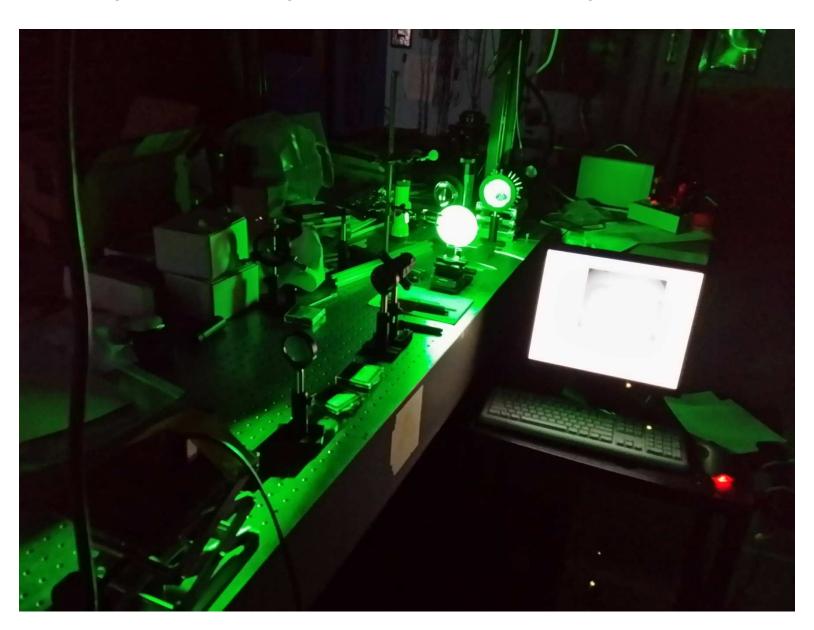




# Optical System Concept Test



# Optical System Concept Test



# **Optical System Concept Test**

