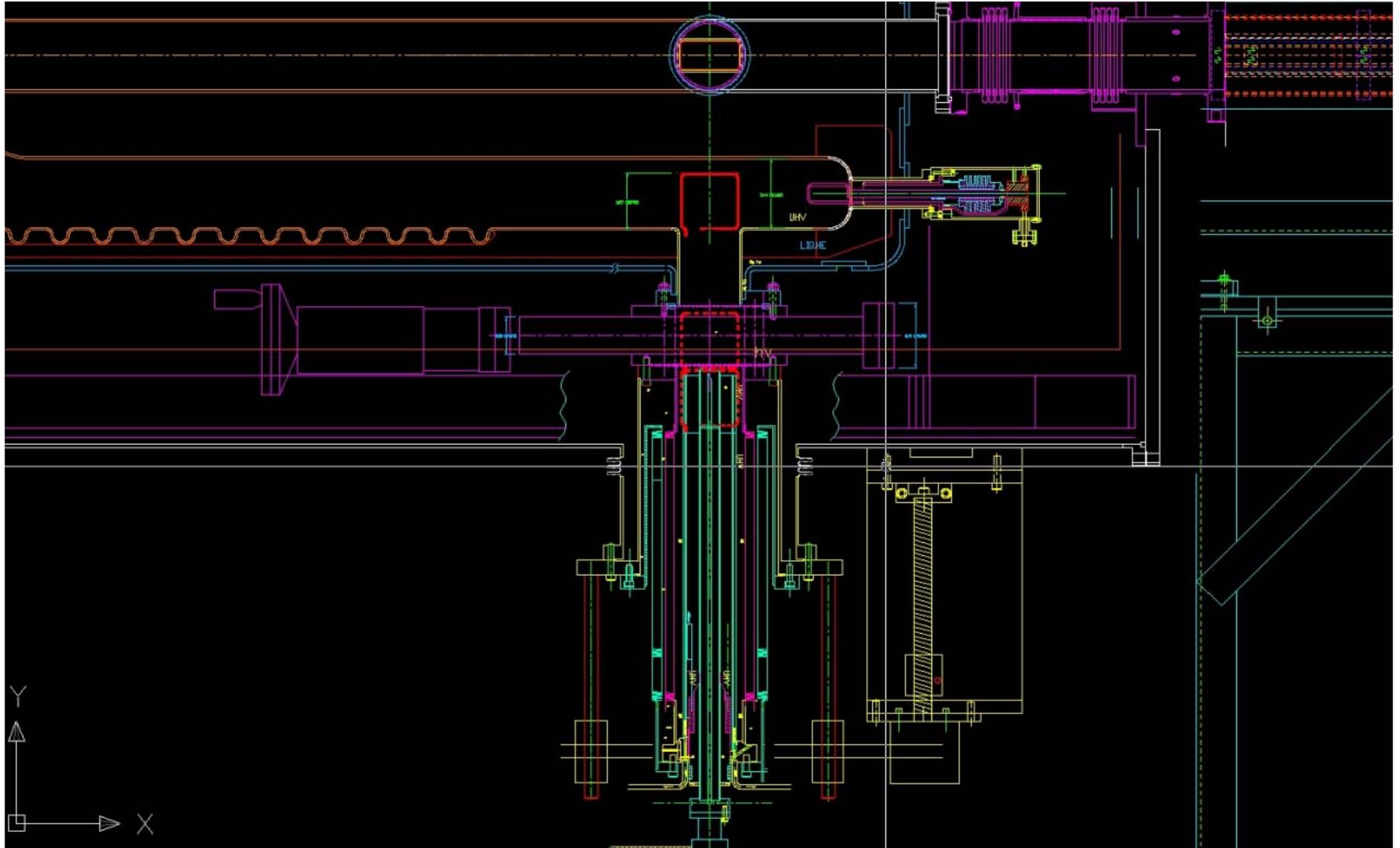


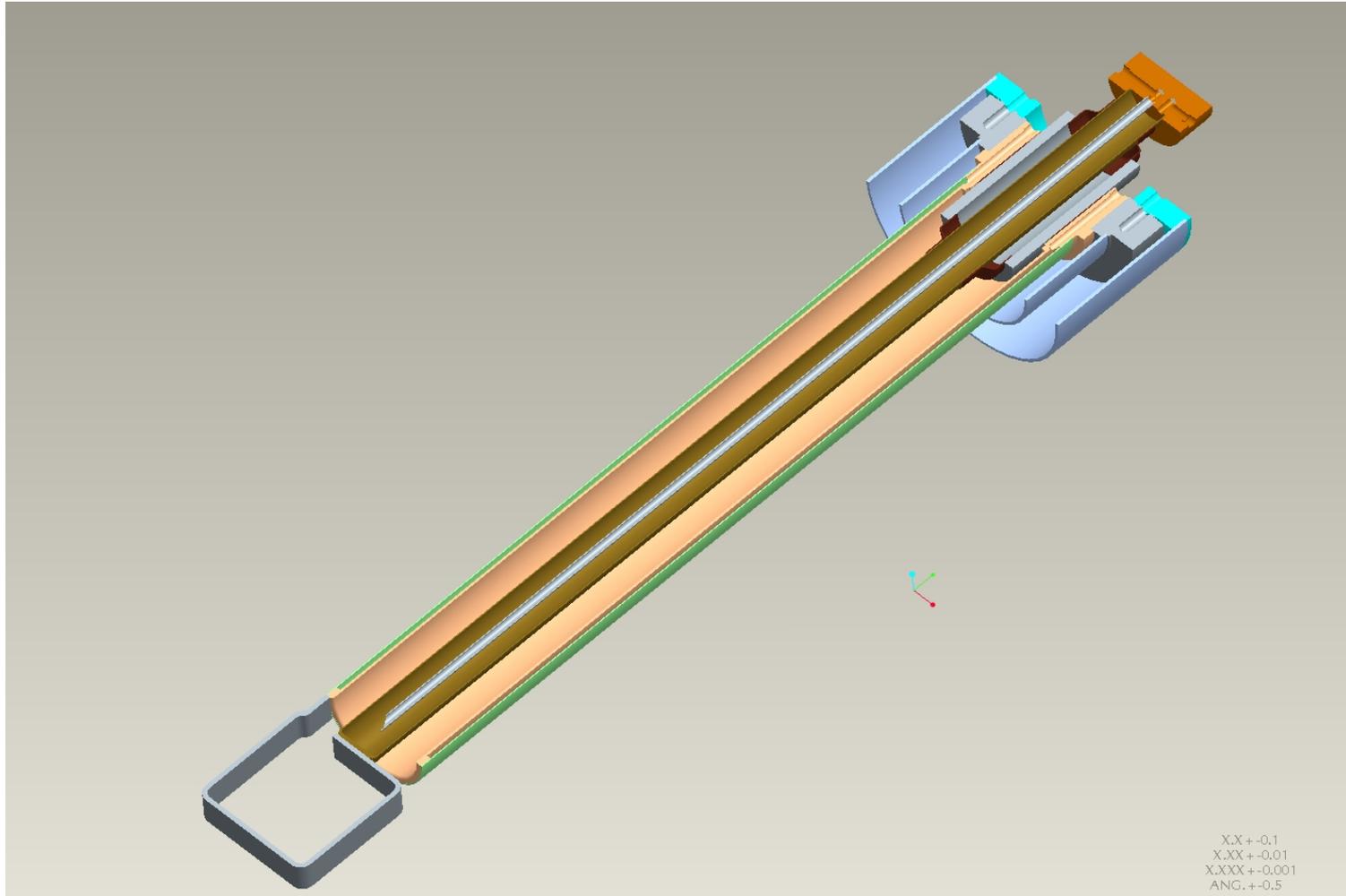
Fundamental Damper

January, 2009

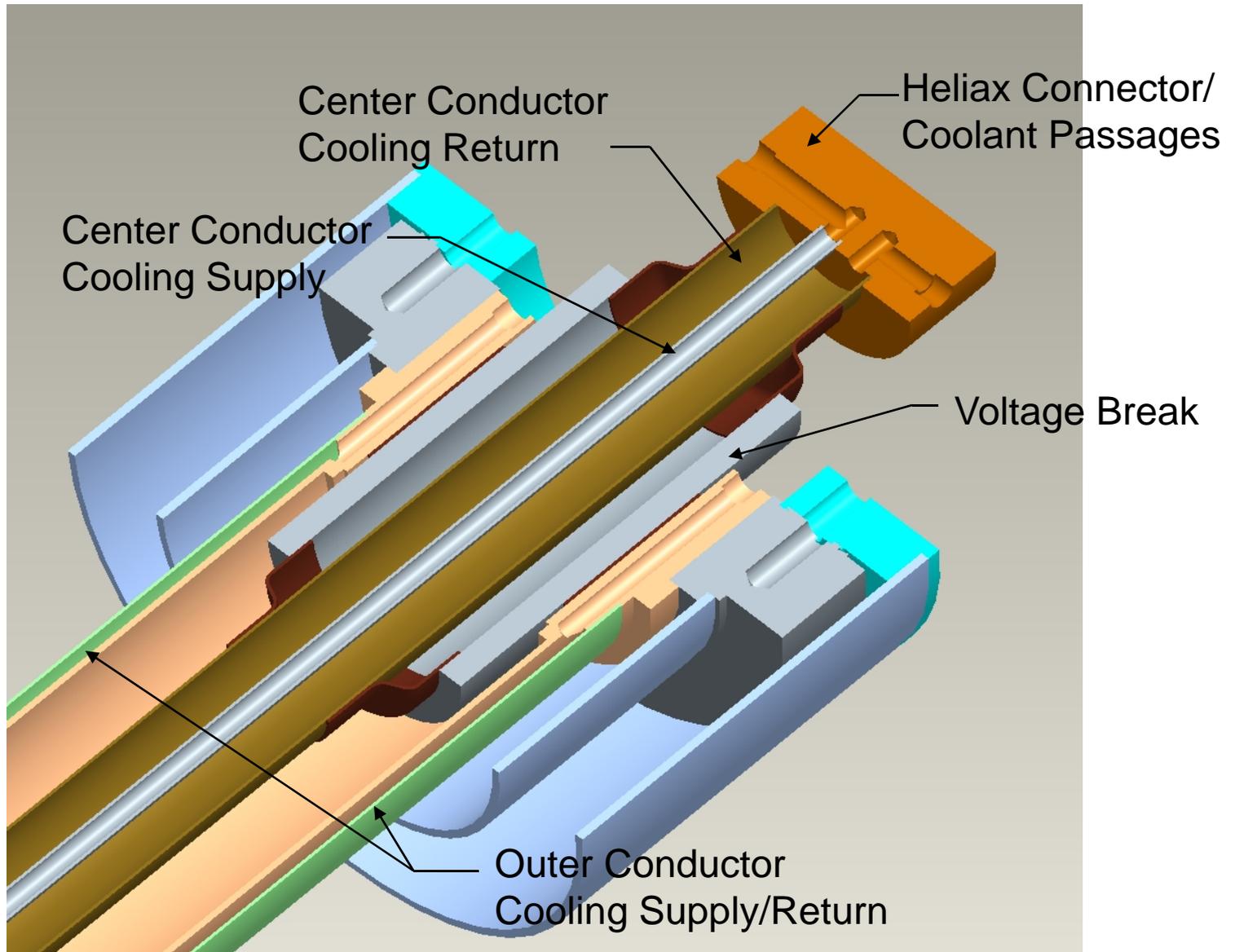
Fundamental Damper



Fundamental Damper

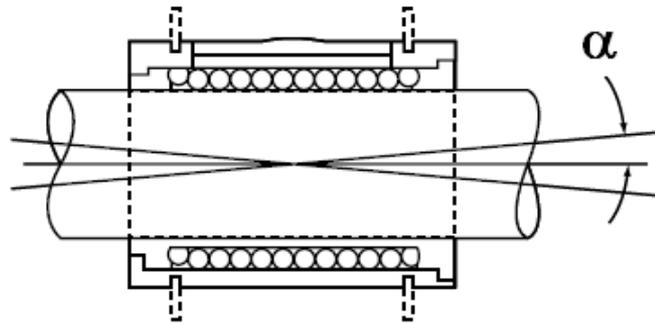


Fundamental Damper



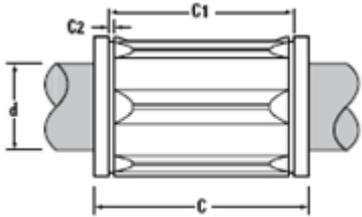
Motion System

Bearing Alignment Test



Motion System Bearing Selection (cont.)

Results:



1. Thomson-Danaher $\alpha = .43$ degrees (.0075 radians)

2. Nippon Bearing $\alpha = .07$ degrees (.0013 radians)



Fundamental Damper Summary

- Copper Conductors at room temperature
- Cooling medium to be determined (N₂ gas, liquid H₂O, ?, etc)
- Motion System to provide required travel for operation as well as removal for maintenance
- Bellows life cycle determines maintenance schedule
- Design still in preliminary phase